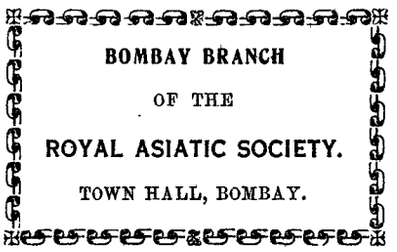
Forest Dept.

Madras Presy.

Report

1897-98 & 1899-1900



Digitized with financial assistance from

Government of Maharashtra

on 01 February, 2020

ANNUAL ADMINISTRATION REPORT

OF

THE FOREST DEPARTMENT,

MADRAS PRESIDENCY.

LIBRARY OF THE BOMBAY BRANCH OF THE ROYAL ASIATIC SOCIETY

FOR THE

TWELVE MONTHS ENDING 30TH JUNE 1898.

(1897-98.)

134084

LIBRARY OF THE BOMBAY BRANCH OF THE ROYAL ASIATIC SOCIETY

MADRAS:
PRINTED BY THE SUPERINTENDENT, GOVERNMENT PRESS.

1899.

TABLE OF CONTENTS.

CHAPTER I.—EXTENSION AND CONSTITUTION OF STATE FORESTS.

	PARA.	PAGE.
i. Alteration of Area—		
Areas—		
Changes during the 12 months.	1	1 & 2
District Areas and Forest Reserves	2	2 & 3
Reserved Forests—		
Area constituted during the 12 months	3	4 & 5
ii. Forest Settlements—		
Progress in Settlement ..	4–7	5–7
Outturn of Work by Special Forest Settlement-officers ..	8	7–9
Outturn of other Settlement-officers (Divisional-officers) ..	9	9
Selections for further Reservation and Estimate of Area to be eventually declared Reserved Forests	10	9 & 10
Reserved Lands not brought under Settlement	11	10
Survey of proposed Reserves, Departmental Surveys and Employment of Draughtsmen.	12	10 & 11
Demarcation of proposed Reserves	13	11 & 12
iii. Demarcation—		
Lengths demarcated and cost of permanent demarcation ..	14	12–14
iv. Surveys—		
Operations of the Survey of India Party and the mapping of Reserved Forests ..	15	14 & 15

CHAPTER II.—MANAGEMENT OF STATE FORESTS.

1. Regulation of Management—		
Working Plans and their control.	16	15–17
Annual Plans of Operations ..	17	18
2. Working of the year—		
(*a*) Communications and Buildings—		
General	18	18 & 19
Expenditure on Roads ..		
Do. on Buildings.		
Tramways	19	19 & 20
(*b*) Protection of Forests from Injury—		
General Protection and Breaches of Forest Law and rewards to informers and subordinates of the Forest and Abkári Departments	20–22	20–27
Protection from Fire ..	23–25	28 & 29
Regulation of Grazing and Protection from Cattle ..	26	29 & 30
(*c*) Improvement of Forest growth—		
Natural Reproduction ..	27	30–32
Artificial Reproduction, Plantations and Cultural Operations	28	32–34
Early Thinnings, other Operations for the improvement of the Growing Stock	29	34
Experiments	30	34–36
(*d*) Exploitation of Major Forest Produce—		
Clear or Regeneration Fellings	31	36
Selection Fellings	32	36 & 37
Improvement, Coppice, &c., Fellings ..	33	37
Unregulated Fellings ..	34	37 & 38
(*e*) Extraction and Transport of Major Forest Produce ..	35	38
(*f*) Exploitation of Minor Forest Produce—		
Extraction of Fodder ..	36	38
Grazing	37	38 & 39
Miscellaneous Produce ..	38	39

CHAPTER III.—GROSS YIELD AND OUTTURN OF FOREST PRODUCE.

Yield—		
General	39	40
Departmental Operations ..	40	40–43
Removals by purchasers ..	41	43–45
Comparative Cost of Departmental and Private Working ..	42	45
Confiscated Produce	43	45 & 46
Free grants of Forest Produce ..	44	46

CHAPTER IV.—FINANCIAL RESULTS.

Revenue and Expenditure	45	47 & 48

CHAPTER V.—FOREST ADMINISTRATION.

	PARA.	PAGE.
Important Administrative Changes—		
Realization of Revenue from the Usufruct of Toddy-yielding Trees in the Reserved Forests and Government Waste and Poramboke Lands	46	48
Working of the Department—Improvement of Forest growth and wants of the people ..	47	48
Rules under the Forest Act ..	48	48 & 49
Working of the Rules under Section 26 of the Forest Act ..	49	49
Coffee Cultivation in Reserved Forests	50	49
Tours of Forest Member ..	51	49
Conservators' Inspections ..	52	50
Touring of District Forest officers.	53	50
Inspection of Range offices by District Forest-officers ..	54	50
Audit of the Accounts of the District Forest offices	55	50
Forest School	56	50
Conference of District Forest and Divisional officers during jamabandi	57	50
Conduct and Work of the Establishment	58	50 & 51
Health of the Establishment ..	59	51
Service Books	60	51
Inventory of Valuable Stock ..	61	51
Elephants	62	51
Rain-gauges	63	51
The Iron Industry in the Salem District	64	51 & 52
Work done by Superior officers ..	65	52

APPENDICES.

	PAGE.
Area of Reserved Forests and Reserved Lands (No. 44)	i
Progress made in, and expenditure incurred on, Forest Settlements (No. 45) ..	ii–xvii
Appendix A—Forest Settlement	xviii–xx
Do. B—Causes of delay in the submission of final Notifications of Forest Reserves	xxi
Do. C—Reserved Lands not under Settlement in square miles	xxii
Do. Demarcation and maintenance of boundaries (No. 46)	xxiii
Forest Areas Surveyed and under Survey (No. 47)	xxiv, xxv
Appendix D—Abstract of District Reports in regard to the maintenance of Maps..	xxvi, xxvii
Do. E—Statement showing the area of Forest Reserves for which final Maps have been prepared	xxviii
Progress made in Working Plans (No. 48)	xxix
Communication and Buildings (No. 49)	xxx–xxxvii
Statement showing the results of Transport of Wood by Tramways compared with the Transport by Carts (No. 65)	xxxviii–xli
Prosecution for Breaches of Forest Rules (No. 50)	xlii
Area of Forest Tracts protected from Fire (No. 51)	xliii–xlvi
Areas open and closed to grazing (No. 52)	xlvii
Area of Plantations (No. 53)	xlviii, xlix
Annual List of Topes (No. 54)	l
Statement showing the Outturn of Timber and Firewood and Agency of Exploitation (No. 55)	li
Outturn of Minor Forest Produce (No. 56)	lii
Account of Timber, &c., in Depôts and sold locally (No. 57)	liii, liv
Abstract showing the value of Timber and other Produce at Depôts (No. 58) ..	lv
Timber and other Produce cut and collected and removed by Consumers (No. 72 A, Old Code)	lvi
Timber and other Produce confiscated and sold (No. 72 B, Old Code)	lvii
Summary of Revenue and Expenditure (No. 59)	lviii–lxii
Abstract of the above prepared in the Board's office	lxiii, lxiv
Outstandings and Liabilities on account of Contractors and Disbursers (No. 60) ..	lxv
Do. on account of Revenue (No. 61)	lxvi
Statement of Financial results (No. 62)	lxvii
Abstract showing the value of Live-stock, Stores, Tools and Plant (No. 64) ..	lxviii, lxix
Return of Elephants (No. 63)	lxx, lxxi

PROGRESS REPORT

OF

FOREST ADMINISTRATION IN THE MADRAS PRESIDENCY

FOR THE TWELVE MONTHS ENDING WITH 30TH JUNE 1898.

CHAPTER I.—EXTENSION AND CONSTITUTION OF STATE FORESTS.

(i) *Alteration of Area.*

The area of reserved forests and reserved lands, at the beginning and at the end of the year under report, as well as the changes that have taken place during the year, is abstracted in the subjoined statement. Details of alterations in the forest area in each district are given in Form No. 44 :—

ABSTRACT A.—Classes and areas of forests.

—	Area on 1st July 1897.	Added during the year.	Excluded during the year.	Net increase or decrease.	Area on 30th June 1898.
Northern Circle.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.
Reserved forests	4,445	(*a*) 4, (*b*) 371	(*a*) 18	+ 357	4,802
Do. lands	2,114	(*a*) 19, (*d*) 385	(*a*) 1, (*c*) 28, (*e*) 15, (*f*) 371	— 11	2,103
Total ..	6,559	779	433	+ 346	6,905
Central Circle.					
Reserved forests	5,346	(*b*) 231	(*a*) 2, (*c*) 10	+ 219	5,565
Do. lands	1,513	(*a*) 16, (*d*) 61	(*a*) 8, (*c*) 80, (*e*) 9, (*f*) 231	— 251	1,262
Total ..	6,859	308	340	— 32	6,827
Southern Circle.					
Reserved forests	3,347	(*a*) 25, (*b*) 50	(*a*) 10, (*c*) 4	+ 61	3,408
Do. lands	2,142	(*a*) 8, (*d*) 35	(*c*) 17, (*e*) 5, (*f*) 50	— 29	2,113
Total ..	5,489	118	86	+ 32	5,521
Total.					
Reserved forests	13,138	(*a*) 29, (*b*) 652	(*a*) 30, (*c*) 14	+ 637	13,775
Do. lands	5,769	(*a*) 43, (*d*) 481	(*a*) 9, (*c*) 125, (*e*) 29, (*f*) 652	— 291	5,478
Grand Total ..	18,907	1,205	859	+ 346	19,253

(*a*) Rectification of area. (*b*) Transferred from reserved lands. (*c*) Disafforested or unreserved.
(*d*) Newly constituted reserved lands. (*e*) Excluded at settlement. (*f*) Transferred to reserved forests.

There was a net increase of 346 square miles in the total area brought under the Forest Act, against a decrease of 171 square miles during 1896–97. The largest addition to the area was in *Kurnool*, where 276 square miles were newly notified by the Collector as reserved lands under section 26, and 76 square miles of unreserved land constituted as proposed reserves under section 4. In *Cuddapah*, the *Nilgiris*, *Gódávari*, *Chingleput* and *Kistna*, 49, 34, 22, 12 and 10 square miles, respectively, were added, but these additions were more than counterbalanced by the exclusions in other districts. As a result of the joint report of the Collector and the Conservator, on the subject of reservation in *Salem*, alluded to in paragraph 7 of the report for the preceding year, 41 square miles of lands notified under section 4, were abandoned during the year. A considerable portion of the extent which remained as reserved lands under the rules under section 26 at the end of 1896–97 in *Kurnool*, *Kistna* and *Cuddapah*, was notified under section 4 during the year. The increase in the area of reserved forests, occurred mainly in the districts of *Ganjám*, *Gódávari*, *Kistna* and *Kurnool* in the *Northern Circle*, and *Cuddapah* and *South Arcot* in the *Central Circle*. In *Salem* two surveyors were at work during the year, in surveying the extent of the enclosures erroneously included by the Survey of India Party in calculating the area of blocks mapped by that party, which was alluded to in the report for last year. The work was not completed, as the services of one of the surveyors had to be dispensed with in the middle of the year, owing to the unreliable nature of his work.

2. The percentage of the area brought under the Forest Act in each district, to district area, and to unoccupied lands, is shown in the following statement:—

Abstract B.—District areas and forest reserves.

District.	Total district area excluding feudatory and tributary states.	Area excluding zemindari and whole inam villages.	Occupied area.	Particulars of remaining area (column 3 — column 4).			Reserved forests and reserved lands.			Percentage of column 10 to column 3.	Percentage of column 10 to column 7.
				Unoccupied, culturable, uncultivable and forest areas.	Area for which returns are not available.	Total of columns 5 and 6.	Reserved forests under Act V of 1882.	Reserved lands.	Total of reserves, columns 8 and 9.		
1	2	3	4	5	6	7	8	9	10	11	12
Northern Circle.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.		
Ganjám	8,369	4,437	606	1,147	2,684	3,831	245	318	563	12·69	14·69
Vizagapatam	17,242	1,378	265	572	541	1,113	137	276	413	29·97	37·10
Gódávari	(*b*) 7,857	(*a*) 3,976	1,552	2,424	..	2,424	844	126	970	24·39	40·01
Kistna	8,498	5,615	3,192	2,318	105	2,423	706	456	1,162	20·69	47·95
Kurnool	7,514	(*a*) 6,799	2,041	4,758	..	4,758	1,962	708	2,670	39 27	56·11
Bellary	(*c*) 5,718	(*a*) 4,636	2,692	1,944	..	1,944	458	157	615	13·26	31·63
Anantapur	5,461	4,569	2,166	2,284	119	2,403	450	62	512	11·20	21·30
Total ..	60,659	31,410	12,514	15,447	3,449	18,896	4,802	2,103	6,905	21·98	36·54
Central Circle.											
Cuddapah	(*d*) 8,723	(*a*) 7,570	2,132	5,438	..	5,438	1,651	749	2,400	31·70	44·13
Nellore	(*e*) 8,765	4,072	1,762	2,297	13	2,310	554	126	680	16·69	29·43
Chingleput	3,092	2,049	1,027	1,013	9	1,022	201	14	215	10·49	21·03
North Arcot	7,365	3,905	1,382	2,517	6	2,523	1,047	82	1,129	28·91	44·74
South Arcot	5,216	4,969	2,467	2,429	73	2,502	676	35	711	14·30	28·41
Salem	7,529	5,391	2,164	3,227	..	3,227	1,226	170	1,396	25·89	43·26
Trichinopoly	3,631	2,686	1,661	1,008	17	1,025	192	86	278	10·35	27·12
Tanjore	3,706	2,487	1,779	693	15	708	18	..	18	0·72	2·54
Total ..	48,027	33,129	14,374	18,622	133	18,755	5,565	1,262	6,827	20·60	36·40
Southern Circle.											
South Canara	3,902	3,883	683	3,200	..	3,200	166	957	1,123	28·92	35·09
Malabar	5,594	(*a*) 5,565	1,593	3,972	..	3,972	197	405	602	10·81	15·15
The Nilgiris	957	957	309	648	..	648	358	125	483	50 47	74·53
Coimbatore	(*f*) 7,860	(*a*) 7,297	3,861	3,436	..	3,436	1,708	568	2,276	31·19	66·24
Madura	8,813	(*a*) 3,244	1,684	1,560	..	1,560	567	46	613	18·89	39·29
Tinnevelly	5,389	3,567	2,298	1,263	6	1,269	412	12	424	11·88	33 41
Total ..	32,515	24,513	10,428	14,079	6	14,085	3,408	2,113	5,521	22·52	39·19
Grand Total ..	141,201	89,052	37,316	48,148	3,588	51,736	13,775	5,478	19,253	21·62	37·21

(*a*) Area by village papers is entered as it is in excess of the survey area.

(*b*) The large increases in the figures in columns 3 and 5 are due to the adoption during the year of the area of village papers in column 3 which is in excess of the area by survey owing to the inclusion for the first time in the former of the area of unsurveyed tracts roughly estimated. The Collector reports that this area which is included in column 5 has been incorrectly estimated and that he is taking steps to rectify the error.

(*c*) The increase in the area in column 3 is said to be due chiefly to correction of errors.

(*d*) According to the figures given in the statistical returns for 1896-97 received subsequent to the transmission of this return for that year, the figures in this return show an increase in the occupied area and a corresponding decrease in the unoccupied area owing to season.

(*e*) According to revised return for 1896-97 received in February 1898, the areas in columns 3, 5 and 6 would be 4,068, 2,316 and 6 square miles. This reduces the difference in the area for which returns are not available from 213 square miles in 1895-96 to 6 in 1896-97.

(*f*) The Collector will be asked to explain the variations.

N.B.—The figures in column 3 are exclusive of the area of minor inams in Government villages.

The percentage of the area reserved, to the unoccupied lands, has slightly risen from 36·46 to 37·21. The decrease in the area of unoccupied lands contributed in a small degree to the increase in the percentage.

3. The subjoined statement compares the area finally constituted into reserved forests in each district during the year, with that in the preceding year:—

ABSTRACT C.

Districts.	Prior to 1896–97.	During 1896–97.	During 1897–98.	Total.
Northern Circle.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.
Ganjám	133	21; (c) — 8	99	245
Vizagapatam	87	49	1	137
Gódávari	634	176	36; (a) — 2	844
Kistna	641	27; (a) — 11; (c) — 3	52	706
Kurnool	1,748	58	156	1,962
Bellary	452	11; (a) — 1; (c) — 6	15; (a) — 12; (b) — 1	458
Anantapur	440	(c) — 3	13	450
Total ..	4,135	310	357	4,802
Central Circle.				
Cuddapah	1,535	45; (c) — 4	74; (b) + 1	1,651
Nellore	436	112; (c) — 11	17	554
Chingleput	200	3	7; (c) — 9	201
North Arcot	995	26	26	1,047
South Arcot	505	84; (c) — 16	103	676
Salem	1,224	(a) + 6; (c) — 1	(a) — 2; (c) — 1	1,226
Trichinopoly	192	(c) — 3	3	192
Tanjore	19	(c) — 1	..	18
Total ..	5,106	240	219	5,565
Southern Circle.				
South Canara	114	..	27; (a) + 25	166
North Malabar	157	..	..	157
South Malabar	39	..	1	40
The Nilgiris	357	1	1; (c) — 1	358
North Coimbatore	359	203; (a) — 1; (c) — 8	4; (c) — 3	1,054
South Coimbatore	651	2; (b) + 1	..	654
Madura	559	23; (a) — 8; (c) — 12	15; (a) — 10	567
Tinnevelly	411	3; (c) — 4	2	412
Total ..	3,147	200	61	3,408
Grand Total ..	12,388	750	637	13,775

(a) Rectification of area. (b) Rounding off fractions in previous year's returns. (c) Declared unreserved.

The outturn was largest in *Kurnool*. *South Arcot* comes next, but 80 square miles of the area constituted, appertained to four blocks the notifications of which were published in 1896–97. *Ganjám* and *Cuddapah* rank 3rd and 4th. The outturn in the last-mentioned district was actually much larger than that shown above, as two blocks of an aggregate extent of 155 square miles (the initial notifications of which were pending from the years 1883–84 and 1886–87), were notified under section 16 of the Act during the year under report, but their reservation takes effect only from dates following the close of the year. The same remark applies also, in the case of the marginally-noted districts, to the extent entered against each. The sanction of the Government of India for the disforestment of certain small

	SQ. MILES.		SQ. MILES.
Vizagapatam ...	1	Nellore	18
Gódávari ...	3	South Canara ...	20
Kistna ...	7	North Coimbatore ...	2
Anantapur ...	8	Madura	5

reserves in the *Chingleput* district, aggregating 9 square miles, was notified during the year. Also portions of reserves, of an aggregate extent of about 5 square miles, were disafforested in the districts of *Salem*, the *Nilgiris* and *North Coimbatore*.

(ii) *Forest Settlements.*

4. The progress of forest settlement is shown in the following statement :—

ABSTRACT D.

Circle.	Area of reserved lands—*vide* Abstract A above.					Area brought under Chapter II of the Madras Forest Act.				
	On 1st July 1897.	Added during 1897-98.	Total.	Excluded during the year mainly by reason of constitution as reserved forests.	Balance at the end of the year.	Area notified under section 4, not constituted reserved forests on 1st July 1897.	Added during 1897-98.	Total.	Constituted reserved forest during 1897-98, or otherwise disposed of.	Balance notified under section 4 but not constituted reserved forests on 1st July 1898.
	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.
Northern Circle	2,114	404	2,518	415	2,103	1,373	343 (*a*) + 13	1,729	371 (*b*) 7 (*c*) 15	1,336
Central „	1,513	77	1,590	328	1,262	1,244	118	1,362	231 (*b*) 50 (*c*) 9	1,072
Southern „	2,142	43	2,185	72	2,113	1,413	54 (*a*) + 9	1,476	50 (*b*) 2 (*c*) 5	1,419
Total ..	5,769	524	6,293	815	5,478	4,030	537	4,567	740	3,827

(*a*) Rectification of area. (*b*) Initial notifications cancelled. (*c*) Excluded at settlement.

5. The statement in appendix A shows, district by district, the total area brought under settlement up to the end of the year, the area constituted reserved forests, and the number and area of blocks pending settlement, on the 30th June 1898. The following abstract statement, compares the number and area of blocks notified under section 4 and under section 16 during the year under report, with those of the previous year :—

	1896-97.		1897-98.	
	Number of blocks.	Area.	Number of blocks.	Area.
(1) Areas notified as proposed reserves under section 4 and remaining to be constituted reserved forests at the beginning of the year.	542	SQ. MLS. 4,752	500 (*a*) + 1	SQ. MLS. 4,030 (*a*) + 22
(2) Notified under section 4 during the year	175	402	128	515
Total ..	717	5,154	629	4,567
(3) Deduct area finally constituted as reserved forests under section 16, or excluded at settlement, or the initial notifications of which were cancelled, &c.	136 (*b*) 81	845 (*a*) 91 (*b*) 115 (*c*) 73	132 (*b*) 20	652 (*b*) 59 (*c*) 29
Total of (3) ..	217	1,124	152	740
(4) Area which remained to be finally constituted at the end of the year	500	4,030	477	3,827

(*a*) By rectification. (*b*) Initial notifications cancelled. (*c*) Excluded at settlement.

There were, at the commencement of the year, 501 blocks covering an area of 4,052 square miles, which were previously notified as proposed reserves under section 4 remaining to be finally-constituted reserved forests. During the year, 128 blocks, of 515 square miles in extent were added, against 175 blocks, with an extent of 402 square miles, in the previous year.

The blocks notified in *Kurnool* and *Cuddapah* covered a large extent of land, and this explains the proportionate increase in the area notified. The decrease in the number is due to selection in several districts having come to a close. To provide for extension of cultivation, and for the exercise of communal privileges, twenty blocks of 59 square miles were abandoned, and 29 square miles were excluded at the settlement of reserves during the year. They include the cancellation of the initial notifications of blocks, covering an area of 41 square miles, referred to in paragraph 1 *supra*. One hundred and thirty-two blocks, with an extent of 652 square miles, were finally-constituted reserved forests during the year, against 136 blocks of 845 square miles in the previous year.

The particulars of the balance of the area under settlement, shown under item (4) above, are as follow:—

	1896-97.		1897-98.	
	Number of blocks.	Area in square miles.	Number of blocks.	Area in square miles.
		SQ. MLS.		SQ. MLS.
(1) Notified under section 16 but not constituted reserved forests during the year	23	122	34	219
(2) With Board or Government awaiting publication of notification under section 16	92	662	75	595
(3) Returned by the Board for revision and remaining either with Collector, District Forest-officer or Forest Settlement-officer	28	669	30	488
Total settled and reported on ..	143	1,453	139	1,302
(4) Settled but not reported on	72	970	81	638
(5) Settlement proceeding	285	1,607	257	1,887
Total of (4) and (5) ..	357	2,577	338	2,525
Total of (1), (2), (3), (4) and (5) ..	500	4,030	477	3,827

6. A statement, showing the causes of pendency of the blocks not yet constituted reserved forests, is given in appendix B. The small decrease in the number of blocks pending at the close of the year, is partly ascribable to the smaller number notified under section 4 during the year. The increase in the area of the reserves, the settlement of which is proceeding, is commensurate with the decrease in the area finally constituted reserved forests during the year, as compared with that in the previous year. Of the 81 blocks comprising 638 square miles shown as settled but not reported on—

19 were awaiting preparation of maps;
6 do. disposal of appeals;
16 do. expiry of time prescribed for appeals;
14 do. payment of compensation or exchange of lands;
8 do. replies to references made to Collector or Board; and
18 were pending submission of final reports by Forest Settlement-officers.

Two hundred and fifty-seven were pending with the Forest Settlement-officers, District Forest-officers and Collectors in various stages of settlement.

7. The results of the settlement operations of the year under report are compared with those of the previous year in the following statement:—

Date.	Finally notified during the year.		Settled and reported on.		Settled but not reported on.		Total.	
	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.
1	2	3	4	5	6	7	8	9
		SQ. MLS.		SQ. MLS.		SQ. MLS.		SQ. MLS.
30th June 1897 ..	136	845	143 * —4	1,453 *—11	72	970	347	3,257
30th June 1898 ..	132	652	139	1,302	81 † —12	638 † — 19	340	2,573

* Blocks notified during 1895-96 in South Canara, but taking effect only during 1897-98.
† Represents the number and area of the Nilambur leased forests, the settlement of which was suspended in 1896-97.

It will be observed from columns 8 and 9 of the last statement, that, although the number of blocks, in respect of which settlement operations were carried on, was only slightly less than in the previous year, the area involved fell short by 684 square miles. The general outturn of work of the several Settlement officers has been commented upon elsewhere.

In *Ganjám*, six blocks, of more than fourteen years' standing, were gazetted as reserved forests during the year. Eleven remained at the close of the year, and the completion of the settlement of five of these, was delayed for want of sketch-maps. The settlement reports of the six others were pending scrutiny in the Board's office. Every effort will be made to notify within the current year all the pending blocks in the district. No progress was made in the disposal of the four pending blocks in *Vizagapatam*, originally notified in the name of the Divisional-officers. The final report of one of them (Barnakonda) awaited perambulation of the boundaries by the Divisional-officer Vizianagram. The settlement records of another (Dharakonda), which was pending with the Board, have since been returned to the Collector for revision. The cancellation of the initial notification in respect of the Bointi reserve has been recommended to Government. As regards the fourth block (Kadagandi), the orders of Government, on the Board's proposal to transfer its settlement to the Special Forest Settlement-officer, have only lately been received. The final notifications of eleven small additions, notified in the name of Mr. Lushington during the previous year, were published in the Gazette during the year. In *Gódávari*, three out of the eight blocks, which were pending for more than seven years, were disposed of during the year, and three more were awaiting the preparation of the final reports by the Forest Settlement-officer. The progress in *Kistna*, *Kurnool*, *Cuddapah*, *Nellore*, *Chingleput*, *North Arcot* and *South Arcot* was satisfactory. The two oldest blocks in *Cuddapah* were notified under section 16 during the year, but their reservation only took effect during the current year. In *Nellore* the settlement reports of the long-standing Sríharikóta block, have since been submitted to Government and orders thereon received. In *South Arcot* the settlement of all the pending blocks has been completed, and their notifications will be published within the current year. The progress in *Bellary* and *Anantapur* was slow, as the Special Forest Settlement-officer was engaged in other districts. In *Salem* the settlement of the proposed reserves, the retention of which has been sanctioned by Government, is being proceeded with. The progress in the other districts was not quite satisfactory. In *Trichinopoly* only one block was notified during the year, and the settlement reports of eleven others, covering 15 square miles, were received in the Board's office only at the close of the year. In *South Canara* the reservation of the Charamadi-Kanapadi block of 20 square miles, pending from the year 1885-86, took effect only from the current year, although the final notification was issued during the year. In addition to this, five blocks of 16 square miles were notified during the year, and the settlement reports of six others were pending with the Board. The short work in the district is ascribed by the Forest Settlement-officer to the inaccuracy of the section 4 forest maps, the inability of Forest officers to keep pace with him in the preparation of section 16 maps, and to the short period (viz., five months), during which the Forest Settlement-officer was at work in the district during the year. In *North Malabar* no blocks were notified during the year. The portions decreed to Bavothi Haji in Peria and Kanoth (two long-standing blocks), were duly excised from these reserves. The submission of the final report for the latter, and for the Padri reserve,

is being delayed, pending preparation of sketches, and the admission of certain rights of way. The Peria reserve is reported to be pending the Collector's decision as to the disposal of a piece of land acquired under the Land Acquisition Act as far back as 1887, but now included in the lands decreed to Bavothi Haji. All the leased forests in *South Malabar* await the cancellation of the initial notifications, and the question of the acquisition of certain portions of the Attipady valley proposed reserve, is under the consideration of Government.

8. *Outturn of work by the Special Forest Settlement-officers.*—The work done by the Special Forest Settlement-officers is presented in the following statement:—

ABSTRACT E.—Outturn of work by Special Forest Settlement-officers during 1897–98.

Names of Special Forest Settlement-officers.	Districts.	Issue of proclamation after notification under section 4.		Settlement of claims.		Report after settlement submitted.		Final notification proclaimed.		Cost.
		Number of blocks.	Area.	Number of blocks concerned.	Area.	Number of blocks.	Area.	Number of blocks.	Area.	
1	2	3	4	5	6	7	8	9	10	11
			SQ. M.		SQ. M.		SQ. M.		SQ. M.	RS.
Mr. R. H. L. Lushington.	Ganjám	..	..	14	277	5	112	8	92	2,485
	Vizagapatam ..	12	8	22	10	10	2	10	2	2,485
	Gódávari	3	22	6	104	1	4	3	39	2,485
	Kistna	..	..	6	14	..	..	..	..	1,864
	Kurnool	..	..	4	149	..	..	..	..	2,485
	Total ..	15	30	52	554	16	118	21	133	11,804
Mr. E. A. Smith	Kistna	24	55	23	62	* 15	32	18	52	4,640
	Kurnool	6	195	4	33	4	25	12	165	469
	Bellary	4	6	3	6	3	6	1	15	223
	Anantapur	..	..	6	35	6	35	2	13	1,119
	Nellore	11	12	21	74	† 17	59	7	19	5,372
	Total ..	45	268	57	210	45	157	40	264	11,823
M.R.Ry. K. Ganapayya Garu.	Cuddapah	13	96	5	47	4	20	9	227	1,834
	North Arcot	1	§ ..	5	18	6	29	7	26	2,396
	South Arcot	..	..	4	4	2	1	10	23	974
	Salem	2	9	4	42	‡ 2	10	..	..	2,321
	Chingleput	29	13	39	15	23	7	13	7	3,145
	Total ..	45	118	57	126	37	67	39	283	10,670
Mr. F. V. P. Gompertz ..	Trichinopoly ..	..	..	23	45	11	12	1	2	2,473
	Tanjore	..	..	..	..	..	..	1	..	2,473
	Madura	3	2	..	..	1	§ ..	5	17	2,473
	Coimbatore	..	..	10	60	10	11	5	5	2,473
	Tinnevelly	1	§ ..	10	7	9	6	7	2	2,473
	Total ..	4	2	43	112	31	29	19	26	12,365
Mr. H. S. Mullins ..	Malabar	..	..	4	46	4	154	1	§ ..	6,496
	South Canara ..	6	20	20	111	15	155	6	34	6,496
	Total ..	6	20	24	157	19	309	7	34	12,992
	Grand Total ..	115	438	233	1,159	148	680	126	740	59,654
	In 1896–97	144	511	146	1,234	98	518	99	623	58,222

* Includes one block of four square miles cancelled during the year.
† Includes one block of four square miles which has since been cancelled.
‡ Excludes the blocks the initial notifications of which were cancelled.
§ Below one square mile.

The total outturn of all the Forest Settlement-officers shows some advance on the preceding year's work, but there is still room for improvement. Mr. Lushington availed himself of privilege leave for one month in September 1897. He proceeded on furlough for one year at the beginning of May 1898, and no successor was appointed.

within the year. His absence on leave contributed to some extent to the short work in the districts under his charge. The blocks which Mr. Gomperz had to visit were more or less scattered and far from one another. Both M.R.Ry. Ganapayya Garu and Mr. Smith did good work during the year. The outturn of the former officer would have been larger, had it not been for his absence on privilege leave throughout the second quarter of the year. The work of the several officers was, as usual, regularly scrutinized in the quarterly reviews of the Board.

9. *Outturn of Forest Settlement work by Revenue Divisional-officers.*—In *Ganjám* none of the three blocks, which were pending with the Senior Assistant Collector, Berhampur, and Principal Assistant Collector, Chicacole, were disposed of during the year, and the causes of their pendency were much the same as those reported last year. The delay in the submission of the reports of the blocks entrusted to Divisional-officers in *Vizagapatam*, has already been explained in paragraph 7 *supra*. On the *Nilgiris* the progress of settlement was insufficient. The Head Assistant Collector, who was the Forest Settlement-officer, was new to the district, and also much occupied with his revenue and magisterial duties. During the year, he was chiefly engaged in the perambulation of the large Wenlock downs reserve. There were pending in the district 33 blocks of 35 square miles at the close of the year.

10. *Selections for further reservation.*—The suit brought by the Zemindar of Kharada, for the possession of the Dokrabadi jungles in the *Ganjám district*, was decided against him just at the close of the year, and the selections in the Agency tracts "Pondokhol" will soon be taken on hand. In *Vizagapatam*, of the areas which it was proposed to reserve in the Agency tracts, the selection of all the blocks, but one, was completed. Selections to the extent of 23 square miles—all extensions to existing reserves—were made during the year in the Ellore range of the *Gódávari district*, but await the approval of, and inspection by, the District Forest-officer. The opinion of the Government Pleader, Madras, was obtained during the year, as to the legality of notifying certain proposed selections in the delta range, and the proposals are awaiting demarcation of the lands. Other selections in the same range were also made during the year. A final scheme for further reservation in *Kistna* was formulated during the year, and the sanction of Government to the same has since been accorded. In *Kurnool* a very large number of blocks was selected in Pattikonda, Ramalakota, Nandikotkúr, Nandyal and Sirvel taluks, by Messrs. Cox and Lodge, and they have been notified as reserved lands under section 26. In all the taluks, except Koilkuntla, selection was almost complete. Selection in *Bellary* was practically completed, excepting 31 square miles in Bellary, Adóni and Alúr taluks, and 47 square miles in the Kudlighi taluk. A final scheme for reservation in the district, for all the taluks except Bellary, Adóni and Alúr, submitted by the Collector during the year, was considered by the Board, and has since been submitted to Government for approval. In *Anantapur*, selection and reservation, in so far as the fuel and fodder reserves are concerned, have already been completed, but, under the instructions of the Board, the Collector has been asked to submit proposals for the reservation of date-bearing areas on the Mysore border. It is reported that the entire work of selection in *Cuddapah* will be completed during the current year. The progress in *Nellore* was not satisfactory. Although 338 square miles remained at the commencement of the year to be notified under section 4, to complete reservation in the district, only 55 square miles were selected during the year under report. A final scheme of reservation in *Salem* has since the close of the year been submitted to Government for approval. The result of the deliberations by the Collector and the Conservator, has been the proposed abandonment of about 375 square miles, of the selections that have already been made. The Musiri blocks in *Trichinopoly* were received in the Board's office after the close of the year, and are under consideration. The selections in *Coimbatore* are awaiting the receipt of revenue survey maps. The latest estimate of reservation is, as usual, shown in the subjoined abstract. As regards the adequacy of the reservation, the Board has no further remarks to offer, than those already recorded in the report for the previous year. Schemes have been prepared for each district and approved by Government, and with regard to all of these it can be said that the reserved area is either as large as is desirable, or as large as the conditions of the districts permit of.

ABSTRACT F.

District.	Sanctioned estimate of areas for reservation.	Area brought under the Forest Act.	Additional estimated area selected or to be selected.	Total estimate proposed to be reserved.	Percentage of column 5 to the area of Government lands in the district.	Percentage of column 5 to the unoccupied Government lands in the district.
1	2	3	4	5	6	7
	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.		
Ganjám	656	563	85	648	14·60	16·91
Vizagapatam	415	413	..	413	29·97	37·10
Gódávari	997	970	93	1,063	26·73	43·85
Kistna	1,165	1,162	3	1,165	20·74	48·08
Kurnool	2,677	2,670	7	2,677	39·37	56·26
Bellary	462	615	278	893	19·26	45·93
Anantapur	535	512	..	512	11·20	21·30
Cuddapah	2,640	2,400	20	2,420	31·96	44·50
Nellore	1,132	680	338	1,018	25·00	44·06
Chingleput	231	215	..	215	10·49	21·03
North Arcot	(a) ..	1,129	1	1,130	28·93	44·78
South Arcot	835	711	..	711	14·30	28·41
Salem	1,096	1,396	198	1,594	29·56	49·39
Trichinopoly	(a) ..	278	56	324	12·06	31·60
Tanjore	23	18	1	19	0·76	2·68
South Canara	1,011	1,123	..	1,123	28·92	35·09
Malabar	(c) 273	602	16	618	11·10	15·55
The Nilgiris	(b) 411	(b) 393	22	415	43·36	64·04
Coimbatore	(c) 1,812	2,276	37	2,313	31·69	67·31
Madura	(a) ..	613	..	613	18 89	39·29
Tinnevelly	440	424	6	430	12·05	33·88

(a) No definite schemes were formulated and approved for these districts.
(b) Excludes leased forests.
(c) Final schemes were submitted only for the Northern Division of the district.

11. *Reserved lands not brought under settlement.*—The extent of these lands in each district is shown in Appendix C. In *Kurnool* it is nearly double the figure of last year, and the increase, due to the notification, at the close of the year, of a large number of blocks under the rules under section 26. Notifications under section 4 were, however, published during the year in respect of 134 square miles, and the progress may be considered satisfactory. In *Vizagapatam* the area is composed of 4 blocks. One of these is awaiting demarcation, and the question of reserving another is still under consideration. The notification under section 4 for one block has since been submitted to Government, and that for another is under preparation in the District Forest office. In *Kistna* good progress was made during the year, 31 blocks, of about 100 square miles, having been notified under section 4. The balance is, however, still large, and every effort will be made to clear off the arrears of work in this direction. In *Bellary* about half the area consists of the Sandúru leased forests, and the delay in notifying the rest, is ascribed to the non-receipt of correct statistics of villages from the Tahsildars and Range officers concerned. In *Salem* the Collector has since been directed to submit notifications under section 4 in respect of all the selections which it is now proposed to retain. In *South Canara* notifications under section 4, in respect of only 5 blocks of 19 square miles, were published during the year. The balance that still remains to be notified in this district is large, and it is hoped, that better results will be shown during the current year. The area in *the Nilgiris* consists of the leased forests in South-East Wynaad.

12. *Survey of proposed reserves, and departmental surveys.*—The Damarakadu proposed reserve (9·3 square miles) in *South Arcot*, the Nandyal extension I and the Eastern Nallamalai block (62 square miles) in *Kurnool*, and the Shelur, Mavar and Pattimedu extension proposed reserves (35 square miles) in *Salem*, were surveyed by the Survey of India Party. In the last-mentioned district part of the Kavuramalai reserve land was also surveyed by that Party.

Departmentally a staff of temporary surveyors and draughtsmen was also employed, in connection with the survey and mapping of proposed reserves and boundaries. In the *Northern Circle* 218 miles were thus surveyed and mapped departmentally in *Ganjám*, and the boundaries of two other reserves, for which there were only inaccurate enlargements from the one-inch scale, were also surveyed. In *Gódávari* the work consisted of the survey of 277 miles, and in *Kistna* of the survey and mapping of one reserve covering 20 square miles and 40 square miles of proposed reserves. In

Kurnool the surveyor continued to survey the enclosures of the Eastern Nallamalai blocks. Two reserves and one proposed reserve were also surveyed. In the *Central Circle* the departmental survey was confined to the *Salem district*. It consisted of the survey of lands comprised in five leases for coffee plantations on the Shevaroy Hills, and of the enclosures in certain reserves in three taluks. In the *Southern Circle* there were two departmental surveyors at work in *South Canara*, besides another whose services were placed at the disposal of the Forest Settlement-officer for survey and correction of boundaries. The work done by the former consisted of the survey of 147 miles of survey with chain and compass, and the demarcation of twelve blocks and preparing maps thereof. In *North Malabar* the services of a departmental surveyor were placed at the disposal of the Special Forest Settlement-officer, for the purposes of surveying and demarcating the portion of the hills in Periya and Kanoth adjudged by the High Court to Bavoti Hadji. The surveyor was also engaged in surveying the enclosures in the Kanoth and Kanoth extension proposed reserves, and the length of boundary line surveyed was about 37 miles. In *Tinnevelly* a district surveyor was engaged in surveying a coffee estate which forms an enclosure to the Nángunéri reserve.

The draughtsmen employed in all the circles were, as usual, engaged in preparing sketch-maps to accompany proposals for further reservation, and in posting and maintaining the maps prescribed in the Forest Code. The outturn of their work in this direction was generally satisfactory. Particulars of information, showing the progress of work in this direction, are given in appendix D.

13. *Demarcation of proposed reserves.*—The following statement shows the length of boundary lines preliminarily demarcated, and the total and average cost of the work, as compared with the figures of the preceding year :—

PRELIMINARY demarcation work.

	During 1896-97.			During 1897-98.		
	Miles.	Cost.	Average cost per mile.	Miles.	Cost.	Average cost per mile.
1	2	3	4	5	6	7
Northern Circle.		RS.	RS. A. P.		RS.	RS. A. P.
Ganjám	..	..	..	8	20	2 8 0
Vizagapatam	161	535	3 5 2	32	536	16 12 0
Gódávari	44	178	4 0 9	17	88	5 2 10
Kistna	244	897 (a) 428	5 6 10	179	1,034 (a) 274	7 4 11
Kurnool	217 (b) 38	527 (b) 196	2 13 4	217 (b) 52	608 (b) 147	2 12 11
Bellary	479	603	1 4 2	154	362	2 5 7
Anantapur	..	..	..	..	..	..
Total, Northern Circle	1,183	3,364	2 13 6	659	3,069	4 10 6
Central Circle.						
Cuddapah	179	379 (c) 381	4 3 1	69 (b) 45	206 (b) 90	2 9 7
Nellore	37	36	0 15 7	133	440	3 4 11
Chingleput	29	111	3 13 3	37	120	3 3 11
North Arcot	..	..	..	..	..	..
South do.	12	35	2 14 8	..	..	..
Salem	6	11	1 13 4	10	14	1 6 5
Trichinopoly	1	8	8 0 0	6	46	7 10 8
Tanjore	..	..	..	..	..	..
Total, Central Circle	264	961	3 10 3	300	916	3 0 10
Southern Circle.						
South Canara	51	39	0 10 6	366	94	0 4 1
North Malabar	5	33	6 9 7	39	235	6 0 5
South do.	..	..	..	5	76	15 3 2
The Nilgiris	120	763 (c) 285	8 11 9	75	537	7 2 7
North Coimbatore	36	564	15 10 8	12	136	11 5 4
South do.	..	..	..	..	17	..
Madura	..	..	..	..	..	..
Tinnevelly	12	28	2 5 4	..	..	..
Total, Southern Circle	224	1,712	7 10 3	497	1,095	2 3 3
Grand Total	1,671	6,037	3 9 10	1,456	5,080	3 7 10

(a) Cost of erecting cairns. (b) Repairs.
(c) Half the pay of the establishment employed on demarcation work, the other half being debited to permanent demarcation.

As explained in the report for 1896–97, the absence of work in some districts, and the short work in certain others, are accounted for by the fact that reservation therein has either been practically completed, or that the outturn was commensurate with the selected areas on hand. The work turned out in *Kistna* might have been larger, but considering that the areas remaining to be demarcated, lie in unsurveyed tracts, and have first to be surveyed by departmental surveyors, the outturn may be regarded as satisfactory. The increase in the number of miles demarcated in *Nellore* and *South Canara*, where large areas remained to be notified under section 4, is satisfactory.

As regards the average cost, the high rate in *Vizagapatam* is due to the erection of permanent cairns in the preliminary stage, in respect of blocks which have been inspected by the Forest Settlement-officer, and the boundaries of which are not likely to be altered. In *Kistna* the heavy growth that had to be cleared, and the planting of prickly-pear for 29 miles, at Rs. 8 per mile, on the boundary lines of three reserves, account for the increase. The increase in *Nellore* has not been explained, but that in *South Malabar* was due to the difficulty of the work, and inaccessibility of the forest demarcated. The rate in *Trichinopoly* is still high, and it is explained that the line cleared contained a dense growth of prickly-pear.

The reference from the Government, contained in G.O., No. 495, Revenue, dated 29th August 1898, calling for information, as to the " general utility of the preliminary demarcation when the permanent demarcation is effected ", was received too late for obtaining reports from the different districts. It may be here, however, pointed out, that preliminary demarcation is indispensable for the purpose of defining reserve limits, as notified under section 4. The preliminary demarcation varies from very complete work in some parts, to the mere temporary marking of the line in others. It may be said generally, that the more substantial, or permanent demarcation, which follows the settlement notification under section 16, is, in the majority of cases, the preliminary demarcation *improved*—in which most of the preliminary expenditure is utilized.

(iii) *Demarcation.*

14. The system of permanent demarcation has been the same as in previous years. Form No. 46 exhibits the outturn of work under this head, as well as the expenditure incurred under new works and repairs.

The following statement shows the length of boundary lines permanently demarcated during the year as compared with the results of the previous year :—

ABSTRACT G.—Demarcation Work done during 1897–98.

Districts.	Permanent.						Re-clearing old lines, &c.			
	During 1896–97.			During 1897–98.			During 1896–97.		During 1897–98.	
	Miles.	Cost.	Average cost per mile.	Miles.	Cost.	Average cost per mile.	Miles.	Cost.	Miles.	Cost.
1	2	3	4	5	6	7	8	9	10	11
Northern Circle.		RS.	RS. A. P.		RS.	RS. A. P.		RS.		RS.
Ganjám	30	(a) 808	26 14 11	53	(a) 349	6 9 4	187	(a) 550	260	(a) 567
Vizagapatam	13	(a) 330	25 6 2	74	1,891	25 8 10	..	(a) 136	..	156
Gódávari	79	474	6 0 0	108	(a) 701	6 7 10	313	(b) 330 / (b) 133	296	49 / (b) 379
Kistna	125	(a) 2,184	17 7 6	78	(a) 1,645	21 1 5	49	(d) 1,202 / (d) 184 / 682	41	(d) 641 / 404
Kurnool	75	2,391	31 14 1	85	3,133	36 13 9	(c) 414	..	(c) 6 / 483	4
Bellary	125	651	5 3 4	187	1,190	6 5 9	150	(b) 429	20	(b) 267
Anantapur	62	200	3 3 7	10	(g) 33 / 44	3 4 10	37	(a) 376	..	12
Total	509	7,038	13 13 3	595	8,986	15 1 8	1,150	4,022	1,106	2,479
Central Circle.										
Cuddapah	(f) 165	(e) 1,385	8 6 3	(h) 437	3,160	7 3 8	..	..	33	163
Nellore	46	(a) 542	11 12 6	206	(a) 1,446	7 0 4	6	12	60	158
Chingleput	44	(a) 1,616	36 11 7	78	(a) 1,570	20 2 0	2	(b) 25 / 572	21	91 / (b) 472 / (a) 143
North Arcot	27	(a) 339	12 8 10	(i) 116	1,385	11 15 0	584	1,760	254	954
South Arcot	187	2,972	15 14 3	154	2,518	16 5 7	24	(b) 61 / 946	(c) 50 / 51	(b) 72 / 675
Salem	90	351	3 14 5	21	51	2 6 10	468	565	305	563
Trichinopoly	70	376	5 6 0	9	51	5 10 8	(c) 21 / 222	156	(c) 50 / 177	258
Tanjore	..	..	..	..	..	..	..	..	..	..
Total	629	7,581	12 0 10	1,021	10,181	9 15 7	1,327	4,097	1,001	3,549
Southern Circle.										
South Canara	133	1,202	9 0 7	259	1,442	5 9 1	..	..	..	..
North Malabar	..	..	..	18	199	11 0 11	76	(b) 430 / 488	..	..
South Malabar	1	49	49 0 0	..	..	..	18	154	18	482
The Nilgiris	37	411	11 1 8	3	21	7 0 0	201	(e) 1,088	240	(a) 1,032 / (b) + 380
North Coimbatore	24	313	13 0 8	43	975	22 10 9	213	(b) 2,864 / 401	347	1,931
South Coimbatore	..	..	..	..	..	..	36	639	36	267
Madura	..	..	..	..	..	..	..	3	15	(a) 326
Tinnevelly	43	127	2 15 3	(c) 21 / 4	.. / 227	10 12 11	5	180	41	163
Total	238	2,102	8 13 4	(c) 344 / + 4	2,864	8 5 3	549	6,247	697	4,581
Grand Total	1,376	16,721	12 2 5	(c) 1,960 / + 4	22,031	11 3 10	(c) 2,390 / 636	14,366	(c) 2,093 / +711	10,609

(a) Include cost of erecting cairns, &c. (b) Cost of temporary establishments. (c) Cleared by the Forest establishment. (d) Cost of sign boards for boundary and coupe lines.
(e) Includes half the pay and allowances of temporary establishment, the other half being debited to Preliminary demarcation. (f) Includes rectifying 53 miles of demarcation.
(g) Cost of demarcation of enclosures in 18 reserves. (h) Includes rectifying 88 miles of demarcation. (i) Rectification of demarcation previously done.

In several districts considerable progress has been made on permanent demarcation, and in most cases the work done was commensurate with the requirements. In *Kistna* the outturn was short, as the question of introducing stone slabs, in lieu of cairns, was under consideration. In *Kurnool* the work consisted of cutting the district and taluk boundaries on the ridges of the Nallamalai Hills, and of clearing the boundaries of some reserves. The cutting of the district boundary between Kurnool and Cuddapah, and the taluk boundary between Cumbum and Nandyal, was completed, and that of the taluk boundary between Nandikotkur and Markapur was in progress. In *Anantapur* demarcation of all the finally-notified reserves was, with one exception, completed. The demarcation of the Malayali settlements on the Javadi Hills in *North Arcot* could not be undertaken during the year, owing to the non-receipt of some sheets of the Survey of India map of the blocks in question. The length of boundaries newly demarcated consisted mainly of new lines cut for the rectification of existing boundaries. The short work in *Salem* was, as stated last year, due to the postponement of operations pending decision on the question of notifying under section 16, certain blocks, the settlement of which was completed. Demarcation in *Tanjore*, *South Malabar*, *South Coimbatore*, and *Madura* is practically complete.

Compared with the cost of the preceding year, there was a marked decrease in *Ganjám*, and an increase in *Kistna*, *Kurnool* and *North Coimbatore*. The decrease in *Ganjám* is explained by the fact, that, during the year under report, the work consisted merely of widening an already cut boundary on the plains, whereas the figures of the previous year included about twenty miles of Maliah boundary cut through very heavy jungle, and at enhanced rates of labour. The increased rate in *Kistna* is ascribed to the thick jungle through which the lines had to be cleared, and to the eradication of stumps. The difficulty of procuring labour on the Nallamalais, and the consequent expensive nature of the work of line cutting therein, has enhanced the rate in *Kurnool*. No explanation has been furnished for the high rate in *North Coimbatore*. The rate in *Vizagapatam* still continues high. The Collector explains that it is difficult to estimate the cost per mile, as, in some cases, cairns have not been erected where the settlement of the extension to a block is pending, and in others the actual distance demarcated is not actually known.

The total expenditure on permanent demarcation inclusive of re-clearing old lines amounted to Rs. 32,640.

(iv) *Surveys.*

15. The combined Parties Nos. 9 and 19, Survey of India, commenced field work between the first week of September, and the last week of October 1897. The work during the year under report was confined to five districts, and the year's outturn is shown in the following statement:—

Districts.	Triangulation.	Traversing.	Topography.	
			Total.	Reserved forests.
	SQ. MLS.	L. MLS.	SQ. MLS.	SQ. MLS.
Kurnool	720	79	214	214
Cuddapah	900	219	..	..
South Arcot	..	74	170	161
Salem	..	53	366	366
Coimbatore	1,711	287	300	300
Total ..	3,331	712	1,050	1,041
Total for the preceding year ..	2,450	1,252	1,147	811

The short work under topography and traversing, as compared with the preceding year's outturn, was compensated by the larger amount of work done under triangulation. Seven sheets of forest maps relating to Salem have been kept back from publication, pending corrections. The District Forest-officers, Salem, South Arcot, Kurnool and Coimbatore, visited the Survey office at Bangalore, between April and July 1898, for the purpose of verifying the maps; all omissions were supplied, and corrections made as far as possible.

The actual expenditure, inclusive of cost of instruments, amounted to Rupees 1,44,960–8–9 for the financial year, and Rs. 1,29,293–7–6 for the survey year ending 31st August 1898. The rate per square mile for topography rose from Rs. 84 to Rs. 119, and the increase is ascribed to the difficult nature of the ground, and the grant of extra travelling allowances, as explained in the report for the previous year. The topography in Kurnool and Coimbatore was of exceedingly difficult ground, and it is reported that the section employed in the former district was paralyzed with sickness from the start. The officer in charge writes thus: "Two officers were incapacitated by illness more than once, and had to leave their duty in the field. One sub-surveyor died, and several men were invalided for periods of varying length, and there was hardly a man who escaped fever altogether." The year's operations may, on the whole, be considered satisfactory.

The total cost of the combined parties, after deduction of the Government of India contribution as adjusted by the Accountant-General, amounted to Rs. 1,00,507 against Rs. 82,638 in the previous year. The strength of the party, it is reported, has since been reduced by two Extra Assistant Superintendents and one Sub-Assistant Superintendent. This arrangement will, it is believed, effect a reduction in the cost during the current year.

The area of reserved forests, for which final maps have been prepared up to 30th June 1898, amounts to 7,509 square miles. The details for each district will be found in Appendix E.

CHAPTER II.—MANAGEMENT OF STATE FORESTS.

(1) Regulation of Management.

(a) *Working Plans and their Control.*

Northern Circle.

16. No working plans have as yet been framed for the forests in *Ganjám*, *Vizagapatam* and *Kurnool*. In the first-named district, however, a record of girth of sal trees in selected plots of one-fourth of an acre was kept, and information showing the figures of yield for each reserve collected. In *Kurnool* attempts are being made to place the improvement fellings at Chalama on a more systematic basis. The provisions of the plan for the Upputeru reserve in *Gódávari* were adhered to, while those of the Narasapur plantation were somewhat deviated from, owing to the demand from the Public Works Department. Steps are being taken for the preparation of plans for the Bendamurlanka plantation and the Kandikuppa reserve, and for rotation fellings in the reserves near Yeleswaram. In *Kistna* a rough working plan was approved by the Conservator for the working of timber in the Bollapalle and Gangalakunta reserves, comprising an area of 88 square miles. The former reserve was divided into six compartments of 32 coupes, and the latter into twelve compartments of 35 coupes. The scheme in respect of Bollapalle was brought into force, but that relating to the Gangalakunta reserve required revision. The provisions of the working plan for the Guntur babul (*Acacia arabica*) and the Gopuvanipalam casuarina plantation working-circles were adhered to. In the report for 1896–97 it was stated that the growth of casuarina in the Gopuvanipalem working circle was unequal, and fellings in selected plots of equal size were experimented on in different months to ascertain the influence of the season of felling upon the coppice. The result has been that coppice does not suit casuarina. The provisions of the working plan for the eastern slopes of the Ramandrug range, in the *Bellary* district, were not carried out during the year. There was no demand for the Sanduru fuel and timber, owing to famine, which continued till November. In *Anantapur* the working plan for the Khojipalle reserve has been in abeyance, on account of the impracticability of carrying out its provisions.

Central Circle

In *Cuddapah* the provisions of Balapalle working plan were adhered to. Fifty-five acres were cut over, and yielded an outturn of 3 tons engine fuel, and about $3\frac{1}{4}$ tons brushwood per acre. The Surveypalle reserve in *Nellore* was worked in accordance with the working plan, but the plan for the Rapur Yerrakondas had to be held

in abeyance, the coupe lines not having been cut. Working plans for the Nellore, Kavali, Kottapalli, Dugadodi and Vavveru reserves were approved by the Conservator during the year. In *South Arcot* the provisions of the preliminary working schemes for the Anamalai reserved forest in the Tiruvannámalai range, the casuarina plantations in Talankodu and Shanankuppam comprised in the working-circle A, and Donidorai (N. and S.) and Nochikadu comprised in the working-circle B, Cuddalore range, were carried out. The financial results in the case of the first-named reserve were favourable, while those in respect of the others were not satisfactory, owing to slackness of demand. Simple working plans, based upon area, exist for 28 blocks, but over half of them were left unworked for want of demand. The Morur block in *Salem* was worked in accordance with the working plan. In *Trichinopoly* the provisions of the working schemes for the Cauvery south bank plantations, and the Udaiyárpalaiyam cassan (*Memecylon edule*) reserves, were closely adhered to. Those of the preliminary working plan for the Manappárai hill reserved forest were deviated from, owing to an error in fixing the size of coupes, and the matter is under correspondence between the Collector and the Conservator. The Tirumulavásal casuarina plantations in *Tanjore* were worked in accordance with the provisions of the working plan. Plans were prepared for certain reserves in the Tanjore taluk, but owing to the poorness of the growth, the question whether it is advisable instead, to close the blocks for sometime, is under consideration.

Southern Circle.

In *North Malabar* no regular working plans were prepared, but selection fellings were continued, and information showing yield was registered. In *South Malabar* the operations in the Nilambur teak plantations, and the new Amarampalem forest, were conducted in accordance with the working plan. The Walayar forest continued to remain unworked, as it was considered desirable to give it rest, but purchasers were allowed to fell and remove bamboos from the coupes already worked. The Chenat Nair reserve was worked under a rough plan, on the selection system. During the year under report the Inspector-General of Forests to the Government of India inspected the Nilambur teak plantations, and forwarded certain suggestions on the working plan prepared for these plantations by Mr. P. M. Lushington. Mr. Ribbentrop's suggestions dealt with the following points:—

(*a*) The classification of soils, and the preparation of a soil map.

(*b*) The advisability of cutting down some of the most inferior teak stock, and replanting the areas with mahogany and other soil-improving species in mixture.

(*c*) The continuance of experiments in planting mahogany either pure, or in mixture with trees less antagonistic to their growth than teak.

(*d*) The doubtful utility of extracting healthy teak trees in vigorous growth, to secure uniformity of age in the several blocks.

(*e*) The discontinuance of the practice of clearing the undergrowth.

(*f*) The evils attending on the conduct of thinning operations on a too severe and uniform scale.

(*g*) The extension of the annual planting operations over as large an area of suitable soil as means will permit.

(*h*) The continuance of experiments in growing rubber-yielding plants, till the most suitable tree is found which will grow in localities not required for the extension of teak plantation.

The above points were referred to the Acting Conservator, Mr. Brasier, who submitted his recommendations, which generally agreed with those of the Inspector-General. The Board, in its Proceedings, Forest No. 282, dated 12th July 1898, approved of these recommendations. In the *Nilgiris* the working plan, drawn up by Mr. Tireman for the Ootacamund plantations, remained in abeyance, owing to absence of demand. Work was carried on both there and at Coonoor, in accordance with Mr. Gamble's preliminary plan. In Mudumalai an attempt was made to carry out Mr. Popert's suggestions for felling and removing large teak trees 6 feet and more in girth, and crooked hollow and unsound trees, in the leased forests, but the results were not satisfactory, owing to the illness of the ranger. In the report for 1896–97 it was

stated that in *North Coimbatore* a regular working plan, for the experimental treatment of a portion of the Vellamundi reserve (Thottampalayam working circle), was approved, and that the main feature of the plan consisted in the restocking of blanks by sowings of various species, with the castor-oil plant as a nurse. There were operations on these lines during the year, but the result was a failure, owing to want of rain. The collection of sandalwood was carried out in the coupes selected by the District Forest-officer in the several ranges, and the results were on the whole satisfactory, notably in Satyamangalam, coupe No. II. In *South Coimbatore* the Sholakarai working circle was given a rest, as the rotation proved too short. The whole scheme has to be revised, and an additional area brought under the provisions of the next working plan. The Chinnar working scheme was approved by the Board in February 1898, but it was not found possible to work one of the coupes within the year. Coupe No. II in the Aiyarangal working scheme was cut over departmentally with good results. The sowing and planting operations in Singaratope working circle, conducted for securing the introduction of more valuable species, were again a complete failure. There are no sanctioned working plans in *Madura*. Plans for the forests in Palamedu and Kanavoipatti ranges are expected to be ready shortly. In *Tinnevelly* three working plans were approved during the year, so that, at the close of the year, there were twelve working circles in which fellings were systematically carried out. The results of the several coupes worked over in the various working circles of Tinnevelly are shown below :—

No.	Name of coupe.	Area in acres.	Extent worked.	Outturn.		Cost of felling establishment, &c.	Net profit.	Net profit per acre.	Net profit per acre per annum.	Remarks.
				Quantity.	Value.					
					Rs.	Rs.	Rs.	Rs. A. P.	Rs. A. P.	
1	Rangarcoil W. C., compartment A, coupe No. II.	56	56	Timber, 39 c. ft. Firewood, 161 tons.	140	8	132	2 5 10	0 1 11	....
2	Rangarcoil W. C., compartment B, coupe No. II.	56	56	Firewood, 91 tons.	59	8	51	0 14 8	0 0 9	....
3	Valaikulam, coupe No. II.	56	56	Timber, 51 c. ft. Charcoal, 2 tons.. Firewood, 320 tons.	630	5	625	11 2 7	0 8 11	....
4	Aiyanarcoil W. C., compartment A, coupe No. I.	280	280	Timber, 5,090 c. ft. Charcoal, 335 tons, Firewood, 411 tons.	839 1,593 317	119	2,630	9 6 3	0 7 6	Mostly worked in 1896-97, but completed during the year. Not shown in last year's report; therefore included here.
5	Aiyanarcoil W. C., compartment A, coupe No. II.	270	270	Timber 4,633 c. ft. Charcoal, 318 tons. Firewood, 160 tons.	1,361 1,375 351	187	2,900	10 11 11	0 8 7	....
6	Panniamudukuteri, compartment A, coupe No. I.	74·50	74·50	Timber, 1,142 c. ft. Charcoal, 202 tons. Firewood, 1,132 tons.	235 1,099 1,436	270	2,500	33 8 11	1 10 10	....
7	Courtallam W. C., coupe No. I.	239	102·25	Timber. 393 c. ft. Charcoal, 299 tons. Firewood, 185 tons. Bamboos, 256 c.ft.	83 1,569 122 32	277	1,529	14 15 3	0 12 0	Contractor was very slow and did not complete the coupe.
8	Koilteri W. C., coupe No. I.	100	100	Timber, 162 c. ft. Charcoal, 283 tons.	36 1,537	182	1,391	13 14 7	0 11 2	....
9	Kalakad W. C., coupe No. II.	157	157	Timber, 1,018 c. ft. Charcoal, 137 tons. Firewood, 469 tons.	157 565 512	173	1,061	6 12 2	0 5 5	....
10	Padarmalai, coupe No. IV.	75	75	Timber, 220 c. ft. Charcoal, $\frac{3}{7}$ ton. Firewood, 855 tons.	93 10 3,058	1,499	1,662	22 2 6	1 1 9	Worked departmentally.
11	Do. do.	60	60	....	1,080	..	..	..	..	Worked on contract. Not yet completed.

The results obtained were on the whole satisfactory, notably those from the Panniamudukuteri, compartment A, coupe No. I. The coupe in the Padarmalai working circle, which was worked departmentally, yielded a better return than the coupe similarly worked in 1896–97, owing to better supervision.

(b) *Annual Plans of Operations.*

17. In the *Northern Circle* the plans of operations were, with only a few exceptions, adhered to in *Ganjám*, *Kistna* and *Anantapur*. In *Vizagapatam* the plan was deviated from; departmental operations for working timber and fuel were not complete, and construction of roads and buildings was deferred for further consideration. In *Gódávari* the construction of several proposed roads and buildings was deferred in favour of other urgent works. In *Kurnool* the chief alterations were the postponement of the construction of certain roads and buildings, owing to the necessity of first completing the previous year's works, and the delay in preparing estimates. There were some alterations in *Bellary*. Drought interfered with the plan for the Sandúru forests, and with the sowing and planting operations. The Commissariat Department required no grass, and the allotment on buildings and roads was not spent, as works, other than emergent, were stopped. In the *Central Circle* the plans of operations were fairly followed in *Chingleput*, *North Arcot*, *Trichinopoly* and *Tanjore*. In *Cuddapah* the bamboos in the Balapalle working circle were leased out, instead of being cut departmentally. One proposed road was deferred, and the departmental collection of small timber in Badvel abandoned, for want of men to supervise. In *South Arcot* the departmental felling of timber, and the construction of certain road and demarcation works, had to be deferred, in view of the general orders regarding curtailment of expenditure. In the *Southern Circle* the plan was mostly adhered to in *South Canara*, *North* and *South Malabar*, *Madura* and *Tinnevelly*. In the *Nilgiris* the programme for the cutting of timber and fuel was not followed for want of demand, and the construction of some buildings, not previously proposed, became necessary. There were some variations in *North Coimbatore*. It was found advisable to extend operations connected with bamboo fellings, owing to brisk demand, and to undertake again the collection of minor produce departmentally, in lieu of leasing it out to contractors. Certain inspection paths and buildings were postponed, as funds were required for payment of a portion of work executed in the previous year. In *South Coimbatore* certain special works at Mount Stuart, in connection with the setting up of sawing machinery, a pump, and a wire ropeway, for which funds were required, necessitated alterations. The subject has not been dealt with in the reports from *Nellore* and *Salem* in the Central Circle.

(2) WORKING OF THE YEAR.

(a) *Communications and Buildings.*

18. The following statement shows the outlay incurred on communications and buildings during the year under report, as compared with the previous year:—

	1896-97.	1897-98.
	RS.	RS.
Roads and bridges	47,268	33,689
Buildings	48,342	44,205
Other works	4,223	5,783

There was a decrease in the expenditure under "Roads and bridges" and "Buildings," and an increase under "Other works." The decrease is due generally to the orders of the Government requiring curtailment of expenditure.

The expenditure on roads amounted to Rs. 11,649 in the *Northern Circle*. A large portion of this was incurred in *Kistna*, *Gódávari* and *Kurnool*. Forty miles of new roads in *Kistna*, and six miles in *Gódávari*, were constructed at a cost of Rs. 6,219 and Rs. 1,895, respectively. In *Kurnool* four miles of new road were constructed from Gazulapalli to Basvapuram, at a cost of Rs. 1,504.

In the *Central Circle* the amount expended on roads was Rs. 7,010, chiefly in *Cuddapah* and *Salem*. In the former district, the construction of two miles of the Pedarallasagudu road was continued, and a sum of Rs. 3,160 was spent. The work in *Salem* consisted of two new roads, at a cost of Rs. 1,843.

In the *Southern Circle* there was an expenditure of Rs. 15,030 on roads. The districts in which the expenditure is most noticeable, are the *Nilgiris*, *Coimbatore* (*North*) and *Tinnevelly*. The chief work in the first-named district consisted of repairs, and a small amount was spent in opening a portion of the Benne Mukatti road, and a small

road to a new forest station. In *Coimbatore (North)* the sum of Rs. 1,974, shown in F. No. 49 as incurred on new works, represents the amount paid during the year for the work done to the Gundila valley road in the previous year. Two important roads were repaired during the year, at a cost of Rs. 2,308. In *Tinnevelly* the new Pápanásam road was completed during the year, as also the construction of the bridge on it, alluded to in the report for last year. Two other necessary roads, not provided for in the budget, were also constructed.

Under "Buildings" the most important new work in the *Northern Circle*, was the construction in *Kistna* of six Range camps, and the completion of another left over from the previous year. A large outlay was incurred in executing repairs to the existing buildings in this district, and to the Nandyal range and head-quarter bungalows in *Kurnool*. The expenditure on new buildings in the *Central Circle* was chiefly confined to *Chingleput* where a rest-house, a forest guard's hut, and a tanna shed, were constructed during the year. Sundry repairs were also made to the existing buildings. In the *Southern Circle* several new works were executed in *South Malabar*, the *Nilgiris*, and *Coimbatore* (*North* and *South*). In *South Malabar*, quarters for the Nilambur Range officer and Foresters were completed, and those for the Amarampalam Range officer constructed at Mandankoduru. In the *Nilgiris* the Benne station was reconstructed, and an inspection lodge at Susigundy built, besides certain forest buildings at Kallar. The new works in *North Coimbatore* consisted of the commencement of the Tamarakarai bungalow, and the completion of two out-houses, besides some minor buildings and repairs to the existing ones. The reconstruction of the Foresters' quarters at Anaipadi, and the completion of the saw-mill building, and the tram line to the workshop, formed the principal items of new works in *South Coimbatore*. The large outlay under "Other works" in this division was due to the special works connected with the setting up of machinery. In *Tinnevelly*, besides repairs to existing buildings, a depot-keeper's house, a kitchen, and a certain sundry works, were constructed.

19. *Tramways.*—In the review on the report for the previous year, the Government directed the Board to consider whether a more satisfactory way of estimating the usefulness of these tramways could not be devised, and the Conservators, Central and Southern Circles, were accordingly requested to report upon the point, after communicating with the Collectors of Coimbatore, Nellore, and Cuddapah. This report has not yet reached the Board, and the suggestion of the Government of India, that the real value of the tramway would seem to be represented by the net profit realized from the sale of the otherwise unexploitable wood, was received too late to allow of enquiries, during the year under report, as to whether there were any objections to the adoption of this suggestion. Under these circumstances, the tramway statements, appended to this report, have been prepared on the same lines as those adopted in the report for the previous year. In the Sríharikóta Range in the Nellore district, the tramway was worked a distance of $5\frac{3}{4}$ miles, against $2\frac{1}{2}$ miles, and the number of tons of fuel carried was slightly larger than in the previous year. In the casuarina plantation range $1{,}705\frac{1}{2}$ tons were carried over a distance of 4 miles, against 1,099 tons in the preceding year. The Collector of Nellore reports that it is impossible to procure carts, that the estimate of the cost of conveyance by carts, reported on in previous years, was based on imaginary data, and that actual experiments by cooly labour were made during the year under report. These points will be considered separately, for the reasons already explained. In *Cuddapah* the loss was greater than usual, owing to the shorter haulage, and to the smaller quantity of wood removed during the year. The Collector is, however, doubtful if the tramway will ever pay at *Balapalle* (the locality in which it is now laid), as the fuel to be trucked annually, is limited to the outturn of two compartments of the Balapalle working circle. It is evident that a tram line, which involves heavy outlay, will only be profitable, when a very large amount of work is done.

In *South Coimbatore* the number of miles worked was $5\frac{1}{2}$, against $4\frac{5}{8}$ in the previous year, a branch tram line of about $6\frac{1}{2}$ furlongs having been extended to the saw-mill. The quantity trammed was 40,880 cubic feet of timber, or 15,859 cubic feet less than in the previous year. The smaller quantity trucked, was due to the retention in forest depots of some of the timber, to secure seasoned wood for the saw-mill. The difficulties in connection with the tramming, alluded to in the report for the last year,

continued also during the year under report, and the contractor refused to undertake the tramming without a considerable increase in rates. It is, however, noted that arrangements are being made to work the tramway departmentally. The smaller loss during the year was due to the greater length of tram distance worked.

(b) *Protection of Forests from Injury.*

(1) General Protection and Breaches of Forest Laws.

20. The particulars of cases relating to prosecutions for breaches of Forest laws during the year under report, and the preceding year, are summarised in the following statement :—

Circle.	Year.	Number of cases pending at commencement of the year.	New cases of the year.					Total cases.	Cases pending at close of year.
			Injury by fire.	Unauthorised felling, &c.	Illicit grazing.	Other offences.	Total new cases.		
Northern ..	1896-97 ..	567	33	2,268	913	398	3,612	4,179	710
	1897-98	710	17	2,672	1,384	369	4,442	5,152	665
	Difference ..	+ 143	— 16	+ 404	+ 471	— 29	+ 830	+ 973	— 45
Central ..	1896-97 ..	595	22	2,629	2,745	209	5,596	6,191	682
	1897-98 ..	682	53	3,710	3,825	377	7,965	8,647	1,054
	Difference ..	+ 87	+ 31	+ 1,081	+ 1,080	+ 177	+ 2,369	+ 2,456	+ 372
Southern ..	1896-97 ..	418	43	1,050	814	523	2,430	2,848	384
	1897-98 ..	384	42	1,525	762	257	2,586	2,970	462
	Difference ..	— 34	— 1	+ 475	— 52	— 266	+ 156	+ 122	+ 78
Presidency ..	1896-97 ..	1,580	98	5,947	4,472	1,121	11,638	13,218	1,776
	1897-98 ..	1,776	112	7,907	5,971	1,003	14,993	*16,769	2,181
	Difference ..	+ 196	+ 14	+ 1,960	+ 1,499	— 118	+ 3,355	+ 3,551	+ 405

* Petty offences in South Canara let off with a warning have not been included.

Taking the Presidency as a whole, there was an increase under every head except "Other offences" and the total number of new cases during the year increased by 28·8 per cent. As regards the circles individually, there was an increase of 22·9 per cent. in the *Northern Circle*, 42·3 per cent. in the *Central Circle*, and 6·4 per cent. in the *Southern Circle*.

The number of cases of injury by fire diminished in the *Northern Circle*. The decrease occurred in the districts of *Gódávari*, *Kistna*, *Bellary* and *Anantapur*. In the *Central Circle* there was an increase of 31 cases, of which 25 were in *South Arcot* alone. The number of cases in the *Southern Circle* was the same as in the preceding year, the decrease in *Madura*, *Tinnevelly* and *South Canara* being counterbalanced by the increase in the other districts, chiefly *South Coimbatore*, where there were no cases reported in the preceding year. The increase under "Unauthorized felling" was spread over all the circles. In the *Northern Circle* the increase in *Ganjám*, *Kurnool* and *Anantapur* was due to better supervision, and increased vigilance on the part of the subordinates, and in the first two districts also, to increased staff consequent on the reorganization of the subordinate establishment. The distress that prevailed in *Kistna* is given as the chief cause for the increase in that district. In *Vizagapatam* the number of cases under this head increased largely (48·6 per cent.), but the increase has not been accounted for. There was a falling off in the number of cases in *Bellary* (22·6 per cent.), the season having changed for the better, which reduced the temptation to cut firewood for sale without permits. In the *Central Circle* there was an increase in all the districts, notably in *Cuddapah*, *Nellore*, *Trichinopoly* and *Salem*. In *Cuddapah* the number of cases were 537, against 247 in the preceding year. There was much illicit removal of fuel from unreserved lands during the sugarcane boiling season, and also of red-sanders timber. In many cases a license for one or two cart-loads of fuel was taken out, and a large quantity in excess was cut. In *Nellore*, *Trichinopoly* and *Salem* there was an increase of 63, 60·7 and 50·6 per cent., respectively. In *Nellore* many of the cases were petty ones. In *Trichinopoly* the increase

was the result of the prohibition imposed during the year on the removal of manure leaves from the Pachamalai reserved forest, and in *Salem* chiefly to prolonged drought. As in the previous year, the increase in *South Arcot* is ascribed to better detection of offences, chiefly in unreserved lands. In the *Southern Circle* the increase in *North* and *South Coimbatore* was due to better detection, and in the southern division, partly to the introduction of the timber transit rules.

In *Tinnevelly* and *South Malabar*, many of the cases were of a petty nature. Under "grazing without permission" the number of cases increased by about 51 and 39 per cent. in the *Northern* and *Central Circles*, and diminished slightly in the *Southern Circle*. In *Vizagapatam* and *Gódávari* the number of cases reported on was 120 and 205, against 50 and 31 in the previous year. In the first-mentioned district the increase has not been explained. In *Gódávari*, as well as in *Kurnool*, it was due to better supervision, while in *Kistna*, *Cuddapah*, *Nellore* and *Salem* to the continuance of the drought that prevailed last year, and in *Anantapur*, *North* and *South Arcot* to illicit brousing of goats. It is reported that in *Anantapur*, on payment being enforced, the people evaded taking out permits, preferring the risk of detection. In *South Arcot* alone there was an increase of 655 cases. The enhanced pound fees sanctioned for the Tiruvannámalai taluk was enforced during the year, but it is too soon to form an opinion on the effect produced. The old rate of one anna prevailed during the first $2\frac{1}{2}$ months of the year, when 7,795 goats were impounded in 58 cases, and during the rest of the year, when the increased rate of four annas was in force, 11,963 goats were impounded in 149 cases. The total amount paid by owners was Rs. 3,478 as pound-fees, Rs. 3,940 as compensation, and Rs. 711 as fines.

"Other offences" decreased in the *Northern* and *Southern Circles*, notably in the latter, and increased in the *Central Circle*. The decrease occurred principally in *Gódávari* and *Bellary* in the *Northern Circle*, and *South Canara* in the *Southern Circle*. In *Vizagapatam*, where there was a large increase, the offences were petty ones, the podu cultivators in the Agency tracts being the most persistent offenders. In *Bellary* there was a fall in the illicit tapping of date trees, due to the introduction of the tree-tax system, and the effect produced by severe punishment awarded in the cases prosecuted during the previous year. In *South Canara* a few cases of clearing, and unauthorized kumri, were reported on. The increase in the *Central Circle* occurred principally in *South Arcot*, and has not been accounted for.

The number of cases pending at the close of the year was 2,181, or only 405 more than the number pending at the close of the previous year, and this result is satisfactory, considering the large increase (3,355) in the number of cases reported on during the year.

21. The disposal of offences during the year is compared with that in the previous year in the following statement:—

Circle.	Year.	Total.	Withdrawn.		Compounded.		Prosecuted.		Percentage of cases prosecuted to disposals.	Percentage of acquittals to cases prosecuted.
			Number.	Percentage.	Number.	Percentage.	Convicted.	Acquitted.		
Northern ..	1896-97	3,469	546	15·7	1,742	50·2	948	233	34·1	19·7
	1897-98	4,487	702	15·7	2,235	49·8	1,356	194	34·5	12·5
	Difference ..	+1,018	+ 156	..	+ 493	— 0·4	+ 408	— 39	+ 0·4	— 7·2
Central ..	1896-97	5,509	727	13·2	3,256	59·1	1,284	242	27·7	15·8
	1897-98	7,593	1,348	17·8	4,255	56·0	1,691	299	26·2	15·0
	Difference ..	+2,084	+ 621	+ 4·6	+ 999	— 3·1	+ 407	+ 57	— 1·5	— 0·8
Southern ..	1896-97	2,464	351	14·2	795	32·3	1,121	197	53·5	14·9
	1897-98	2,508	370	14·8	1,204	48·0	777	157	37·2	16·8
	Difference ..	+ 44	+ 19	+ 0·6	+ 409	+ 15·9	— 344	— 40	— 16·3	+ 1·9
Presidency ..	1896-97	11,442	1,624	14·2	5,793	50·7	3,353	672	35·1	16·7
	1897-98	14,588	2,420	16·6	7,694	52·7	3,824	650	30·7	14·5
	Difference ..	+3,146	+ 796	+ 2·4	+1,901	+ 2·0	+ 471	— 22	— 4·4	— 2·2

There was a decrease in the percentages of cases acquitted, to cases dealt with, by the Magistracy, in the *Northern* and *Central Circles*, and an increase in the *Southern Circle*, the figures being 7·2, 0·8 and 1·9, respectively. The decrease in the *Northern Circle* was contributed by all the districts, except *Ganjám* and *Bellary*, where the percentages rose from 15 and 10, to 18 and 16, respectively. The increase in the former district is ascribed to several old cases having been long left unreported by the Range officer in Bugada, and that in the latter district to the unsuccessful prosecution of certain cases of illicit date tapping on lands, the possession of which was in dispute between Government and the ryots. In *North Arcot* and *Salem* in the *Central Circle*, the percentage rose from 18 and 17, to 21 and 23, respectively. The increase in *Salem* is ascribed to the conduct of cases having been unavoidably entrusted to forest guards. In *South Canara*, where the percentage rose from 16 to 20, the acquittals were chiefly in cases against Kumaki rules, and in most of these cases the accused did not produce evidence in their favour at the preliminary enquiry, but produced it before the Magistrate. The percentage of acquittals in *North Coimbatore* was also large, being 25 against 16 in the previous year. It is explained that the reliable cases were compounded, and the doubtful ones sent to the Magistrates.

The percentage of cases withdrawn, to cases disposed of, during the year, shows but a slight increase, taking the Presidency as a whole. In the *Northern Circle*, the net result remained unaffected, the increase in *Ganjám* (8 to 11 per cent.), *Vizagapatam* (16 to 20 per cent.) and *Gódávari* (7 to 21 per cent.) being counterbalanced by decrease in the other districts of the circle. In the *Central Circle* there was an increase of 12 per cent. in *Cuddapah*, 10 per cent. in *South Arcot*, and 6 per cent. in *North Arcot*. In *Gódávari*, *Cuddapah* and *South Arcot*, offenders in petty cases were let off with a warning, and the cases withdrawn. In *North Arcot* it was due to the practice of withdrawing charges of illicit grazing against new offenders, on condition of purchasing permits for their cattle immediately. The increase in *Ganjám*, *Vizagapatam* and *Salem*, being only small, calls for no remarks. In the *Southern Circle*, an increase is noticeable in *South Coimbatore*, the percentage having risen from 6 to 17. This is said to be due to the withdrawal of several long-pending cases in which the offenders could not be found, and to offenders under the timber transit rules having been let off, as they were ignorant of the introduction of the new rules in the district. The percentage of cases compounded diminished in the *Northern* and *Central Circles*, while in the *Southern Circle*, and for the Presidency, it increased by 15·9 and 2 per cent., respectively. In *South Canara*, *South Malabar*, *North Coimbatore* and *Madura*, the percentage rose from 21, 7, 32 and 4, to 46, 52, 39 and 25, respectively. Petty cases, or clear cases, or in which the offenders unmistakably confessed their guilt, are alone reported to have been compounded.

The amount of compensation realised in each circle during the year, as compared with that in the preceding year, is shown in the following statement :—

Circle.	During 1896-97.			During 1897-98.		
	Amount realised.	Average per case.	Average per person accused.	Amount realised.	Average per case.	Average amount per person accused.
	Rs.	Rs. A. P.	Rs. A. P.	Rs.	Rs. A. P.	Rs. A. P.
Northern	18,406	10 9 0	3 11 7	* 21,333	10 12 6	3 4 4
Central	19,286	5 14 9	2 3 7	31,747	7 7 5	3 1 2
Southern	7,587	9 8 8	3 9 3	8,803	7 4 11	2 14 2
Total ..	45,279	7 13 0	2 13 7	61,883	8 5 1	3 1 9

* The figures for Vizagapatam, not being reported, have been excluded from this statement.

The amount of compensation realized was considerably larger than in the previous year, and was due to higher rates of composition levied, for the purpose of producing a deterrent effect. The increase occurred mainly in the districts of *Kistna* and *Kurnool* in the *Northern Circle*, *Cuddapah*, *South Arcot* and *Salem* in the *Central Circle*, and *North* and *South Coimbatore* in the *Southern Circle*. In *Kistna*, *Kurnool*, *Cuddapah*, *South Arcot* and *Salem*, the sums collected amounted to Rs. 7,115, 3,917, 2,666,

15,868 and 5,787, against Rs. 3,925, 2,083, 743, 9,082 and 4,051, respectively, in the preceding year. The rate per case, and per person accused, in the *Southern Circle* decreased, as many of the cases compounded were of a trivial nature.

There were three important cases of forged Government marks on logs in the *Ganjám* district, and the matter is under enquiry with the Deputy Magistrate, Goomsur. The prosecution of the *rela* bark lessees, connected with illicit wholesale fellings of rela (*Cassia fistula*) in the *Anantvpur* district, alluded to in the report for the previous year, resulted in 15, out of the 18 men who were charged, being convicted, and fined in sums varying from Rs. 100 to 200, and aggregating to Rs. 2,150. In *Cuddapah*, the illicit cutting of red sanders was generally done by gangs of Muhammadan wood-cutters, who out-numbered the forest subordinates, and so escaped arrest. In one case however, the ringleaders of the gang, who seriously assaulted the forest subordinates, were identified, and convicted to six months' imprisonment. Of the Range officers referred to in the report for the last year, as being responsible for not having reported the fellings, one was dismissed, one reduced, and the third let off with a warning. In the Saidapet taluk of the *Chingleput* district, five big cases of unauthorised felling in unreserved lands were detected, in which a village munsif and other influential ryots were concerned. They were convicted and fined Rs. 1,000 in all. In *South Arcot* a watcher was murdered in the forest, but the case, which went up to the sessions, resulted in the acquittal of the accused. The Collector surmises that the watcher met with his death, either for having done his duty, or perhaps in violation of some prior arrangement made with the villagers. In the same district there was also a case of assault on a watcher, who was severely beaten by eighteen persons in Tirukkóyilúr range, while engaged in detecting a case of illicit cutting of firewood. The accused were convicted and sentenced to fine and rigorous imprisonment for three months. In *Salem* a person was fined Rs. 100 for theft of sandalwood from Government forests, and some forest subordinates, who concocted a case of theft of sandalwood from the Kollimalais, were dismissed from the service. In *North Coimbatore*, a merchant and fifteen of his workmen, were convicted of illicit removal of sandalwood, and sentenced to six and three months' rigorous imprisonment, respectively.

22. No rewards were paid during the year to informers in the districts of *Ganjám*, *Bellary*, *Nellore*, *Trichinopoly*, *South Malabar*, *the Nilgiris* and *South Coimbatore*. No information on the subject is contained in the reports from the districts of *Vizagapatam*, *Salem*, *Tanjore*, *North Malabar* and *Tinnevelly*. In the other districts, rewards, to an aggregate extent of Rs. 604 to informers (including forest subordinates), and Rs. 813, to subordinates of the Abkári department, were disbursed. The Board is issuing a proceedings on the subject of Forest offences and regulation of grazing, copy of which will be forwarded for the information of Government. The following are the statements called for by the Government of India in letter, No. 3268, Revenue, dated 29th June 1897.

No. I.

Division or Circle.	Cases taken into Court.				Cases compounded.				Cases withdrawn or undetected.				Total cases.				
	Injury to forests by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Injury to forests by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Injury to forests by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Injury to forests by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Grand total of cases.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Northern Circle.																	
Ganjám †	1	155	51	15	..	85	13	3	..	29	1	3	1	269	65	21	356
Vizagapatam *	..	234	30	74	..	179	70	7	..	149	..	..	.	562	100	81	743
Gódávari *	1	139	47	13	..	191	138	43	5	58	11	81	6	388	196	137	727
Kistna	..	83	141	13	..	207	250	22	5	43	147	5	5	333	538	40	916
Kurnool	1	201	126	23	..	393	151	36	..	58	26	11	1	652	303	70	1,026
Bellary	..	33	11	13	..	202	50	77	7	10	28	..	7	245	89	90	431
Anantapur	..	82	85	2	..	70	58	3	..	21	5	1	..	173	148	6	327
Total, Northern Circle.	3	927	491	153	..	1,327	730	191	17	368	218	101	20	2,622	1,439	445	4,526
Central Circle.																	
Cuddapah	8	182	116	4	..	159	285	6	..	177	98	2	8	518	499	12	1,037
Nellore *	1	88	175	5	..	40	1	17	..	6	4	2	1	134	180	24	339
Chingleput	..	64	28	5	..	197	79	14	..	16	11	5	..	277	118	24	419
North Arcot	3	77	60	11	..	494	474	14	..	39	80	1	3	610	614	26	1,253
South Arcot	5	322	173	59	1	646	729	24	29	111	115	211	35	1,079	1,017	294	2,425
Salem †	1	148	169	20	1	440	464	9	16	4	14	1	18	592	647	30	1,287
Trichinopoly	..	105	161	8	..	94	178	8	..	37	198	9	..	236	537	25	798
Tanjore	..	8	7	1	..	13	6	1	..	7	16	3	..	28	29	5	62
Total, Central Circle.	18	994	889	113	2	2,083	2,216	93	45	397	536	234	65	3,474	3,641	449	7,620
Southern Circle.																	
South Canara †	7	250	13	93	..	257	2	48	46	4	1	..	53	511	16	141	721
North Malabar	1	1	1	..	..	..	3	1	..	..	..	2	1	1	4	3	9
South Malabar	..	10	..	..	..	14	..	..	..	3	..	..	..	27	..	..	27
The Nilgiris †	1	21	49	46	1	7	13	10	11	..	..	..	13	28	62	56	159
North Coimbatore ..	1	71	86	13	..	63	83	5	..	21	40	9	1	155	209	27	392
South Coimbatore ..	1	18	12	7	..	141	86	5	..	36	15	5	1	195	113	17	326
Madura	11	124	152	16	..	80	47	1	26	23	29	11	37	227	228	28	520
Tinnevelly	1	20	7	..	..	228	98	13	..	64	35	9	1	312	140	22	475
Total, Southern Circle.	23	515	320	175	1	790	332	83	83	151	120	36	107	1,456	772	294	2,629
Grand Total.	44	2,436	1,700	441	3	4,200	3,278	367	145	916	874	371	192	7,552	5,852	1,179	14,775

* Figures corrected in the Board's office to agree with Form No. 50.

† The Collector has not explained the large variations between these figures and those entered in Form No. 50.

No. II.

Division or Circle.	Details of prosecutions for offences by fire.					
	Serial No. of fire.	Acres burnt.	Character of offence (whether careless or intentional).	Whether acquitted or convicted.	Section of Law under which convicted.	Amount of punishment.
Ganjám	1	No information.	Intentional ..	Acquitted	....	....
Gódávari	1	0·2 acres.	Careless	Convicted	Section 26 (*f*) and (*h*) of the Forest Act.	Four accused fined Rs. 8 each and guns, &c., confiscated.
	2	16 square yards.	Do.	Withdrawn ..	....	....
Kurnool	1	1,280 acres.	Intentional ..	Convicted	Section 21 (*b*) of the Forest Act ..	Fined Rs. 110 and awarded Rs. 200 compensation to the Forest Department.
	2	12,000 ,,	Do. ..	Case pending ..	....	....
Cuddapah	1	No information.	Do. ..	Withdrawn ..	....	....
	2	300 acres.	Do. ..	Convicted	Section 21 of the Forest Act ..	Two were sentenced to 45 days' rigorous imprisonment.
	3	No information.	Do. ..	Do.	Do. do. ..	Fined Rs. 20, in default one month's rigorous imprisonment.
	4	Do.	Careless	Do.	Do. do.	Two were fined Rs. 2 each or two days' simple imprisonment. Seven were fined Re. 1 each or one day's simple imprisonment. One was fined As. 8 or one day's simple imprisonment.
	5	Half an acre.	Intentional ..	Withdrawn ..	....	....
	6	50 acres.	Do. ..	Do.	....	....
	7	1 acre.	Do. ..	Convicted	Section 21 of the Forest Act ..	Sentenced to three weeks' rigorous imprisonment.
	8	30 acres.	Do. ..	Do.	Do. do. ..	Two were fined Rs. 20 each and one month's rigorous imprisonment.
Nellore	1	No information.	Careless	Do.	No information	Two were fined Rs. 5 and Rs. 3, respectively.
North Arcot	1	500 acres.	Intentional ..	Do.	Section 21 of the Forest Act ..	Sentenced to two months' rigorous impisonment.
	2	24 ,,	Careless	Case pending ..	....	....
	3	50 ,,	Do.	Do.	....	....
South Arcot	1	30 ,,	Intentional ..	Acquitted	....	....
	2	3 ,,	Careless	Convicted	Section 21 (*c*) of the Forest Act ..	Two were fined Rs. 10 each, in default ten days' rigorous imprisonment.
	3	4 ,,	Do.	Do.	Do. do. ..	Fined Rs. 10, in default ten days' rigorous imprisonment.
	4	10 ,,	Do.	Do. .. .	Do. do. ..	Two were fined Rs. 5 each.
	5	150 ,,	Intentional ..	Case pending ..	....	....
Salem	1	5 ,,	Do. ..	Do. ..	....	....
South Canara	1	25 ,,	Do. ..	Convicted	Rules under section 26	Fined Rs. 50.
	2	12 ,,	Careless	Case pending ..	....	....
	3	110 ,,	Do. ..	Acquitted	....	....
	4	20 ,,	Intentional ..	Case pending ..	....	....
	5	10 ,,	Do. ..	Do.	....	....
	6	5 ,,	Do. ..	Convicted	Rules under section 26	Fined Rs 25.
	7	17 ,,	Do. ..	Do.	No information	Fined Rs. 6 in default six days' rigorous imprisonment.
The Nilgiris	1	120 ,,	Do. ..	Do.	Rules under section 26	Five days' rigorous imprisonment.
North Coimbatore ..	1	42 ,,	Do. ..	Acquitted	....	....
South Coimbatore ..	1	395 ,,	Do. ..	Case pending ..	....	....
	2	10 ,,	Do. ..	Do. ..	....	....
	3	19 ,,	Do. ..	Do. ..	....	....
	4	15 ,,	Do. ..	Convicted	Section 21 (*b*) and (*c*) of the Forest Act.	Two were sentenced to two months' rigorous imprisonment each.
Madura	1 & 2	480 ,,	Do.	Acquitted	....	....
	3 to 6			Convicted	No information	Fined Rs. 3-4-0.
	7	25 ,,	Do. ..	Acquitted	....	....
	8	No information.	Do. ..	Convicted	No information	Fined Rs. 50 and one month's rigorous imprisonment.
Tinnevel y	1	300 acres.	Do. ..	Acquitted	....	....

No. III.

Division or Circle.	A. Fire caused by accident or through carelessness in burning fire lines.		B. Fires entering the forests by crossing exterior fire traces.		C. Fires beginning inside the reserve or fire traced areas.							
					Owing to carelessness or accident.							
					By workmen employed in the forests, by purchasers of forest produce, and by Yah-cutters.		By villagers, travellers, &c., passing through the forests.		By railway engines.		By lightning or by fire-balloons.	
	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.
1	2	3	4	5	6	7	8	9	10	11	12	13
Northern Circle.												
Ganjám	..	..	4	185	..	..	1	80	..	..	..	..
Vizagapatam	..	..	..	..	..	..	..	..	..	..	..	..
Gódávari	1	10	2	700	..	..	4	155	..	..	..	..
Kistna	..	..	..	..	..	..	..	..	..	..	..	..
Kurnool	..	..	..	..	..	..	..	..	..	..	..	..
Bellary	..	..	..	..	..	..	1	400	1	70	..	..
Anantapur	..	..	..	..	..	..	4	596	..	..	..	..
Total, Northern Circle	1	10	6	885	..	..	10	1,231	1	70	..	..
Central Circle.												
Cuddapah	..	..	..	..	..	..	..	..	2	1,500	..	..
Nellore	..	..	..	..	..	..	..	..	..	..	..	..
Chingleput	..	..	3	72	..	..	..	..	..	..	..	..
North Arcot	..	..	13	3,953	2	74	2	325	1	1	..	..
South Arcot	..	..	8	1,523	3	107	2	537	..	..	..	..
Salem	8	1,147	2	550	..	..	5	270	..	..	..	..
Trichinopoly	..	..	..	..	..	..	2	39	..	..	..	..
Tanjore	..	..	..	..	..	..	..	..	..	..	..	..
Total, Central Circle	8	1,147	26	6,098	5	181	11	1,171	3	1,501	..	..
Southern Circle.												
South Canara	..	..	..	..	15	396	..	..	..	..	..	..
North Malabar	..	..	* ..	56,862	..	..	..	..	..	..	..	..
South Malabar	..	..	..	..	..	..	..	..	..	..	..	..
The Nilgiris	..	..	..	..	..	..	1	1	3	33	..	..
North Coimbatore	..	..	..	..	..	..	..	..	..	..	..	..
South Coimbatore	..	..	..	..	1	375	11	3,694	..	..	..	..
Madura	2	302	33	3,475	..	..	1	220	..	..	1	1
Tinnevelly	..	..	8	311	2	3	..	..	..	..	4	1,145
Total, Southern Circle	2	302	41	60,648	18	774	13	3,915	3	33	5	1,146
Grand Total, Presidency	11	1,459	73	67,631	23	955	34	6,317	7	1,604	5	1,146

* Not known.

No. III—*cont.*

Division or Circle.	C. Fires beginning inside the reserve or fire traced areas—*cont.*								Total A, B and C.	
	By intentional firing.									
	In order to obtain new grass.		In order to turn out game or to reduce cover.		Maliciously fired.		Total.		Causes unknown.			
	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.
	14	15	16	17	18	19	20	21	22	23	24	25
Northern Circle.												
Ganjám	5	610	8	905	..	..	13	1,515	10	2,027	28	3,807
Vizagapatam	..	..	..	..	..	..	..	..	..	1,496	..	1,496
Gódávari	..	..	..	..	..	..	..	..	10	4,664	17	5,529
Kistna	..	..	..	..	..	..	..	..	5	178	5	178
Kurnool	..	..	..	..	2	13,280	2	13,280	13	15,670	15	28,950
Bellary	..	..	..	..	..	..	..	..	5	823	7	1,293
Anantapur	..	..	..	..	..	..	..	..	..	..	4	596
Total, Northern Circle	5	610	8	905	2	13,280	15	14,795	43	24,858	76	41,849
Central Circle.												
Cuddapah	..	..	..	..	3	331	3	331	57	20,825	62	22,656
Nellore	..	..	..	..	..	..	..	..	..	2,585	..	2,585
Chingleput	..	..	..	..	..	..	..	..	..	..	3	72
North Arcot	14	2,600	..	..	..	..	14	2,600	28	12,122	60	19,075
South Arcot	11	2,229	..	..	10	845	21	3,074	6	682	40	5,928
Salem	2	200	..	..	..	..	2	200	6	550	23	2,717
Trichinopoly	1	5	..	..	..	..	1	5	1	60	4	104
Tanjore	..	..	..	..	..	..	..	..	..	..	..	..
Total, Central Circle	28	5,034	..	..	13	1,176	41	6,210	98	36,824	192	53,132
Southern Circle.												
South Canara	2	34	..	..	2	45	4	79	32	1,353	51	1,828
North Malabar	..	..	..	..	..	..	..	..	..	..	..	56,862
South Malabar	..	..	..	..	..	..	..	..	..	..	..	..
The Nilgiris	..	..	..	..	1	120	1	120	8	70	13	224
North Coimbatore	..	..	..	..	2	519	2	519	1	6	3	525
South Coimbatore	1	11	..	..	4	439	5	450	26	14,297	43	18,816
Madura	7	505	3	12	9	11,320	19	11,837	17	1,637	73	17,472
Tinnevelly	5	1,332	2	302	19	2,289	26	3,923	..	..	40	5,382
Total, Southern Circle	15	1,882	5	314	37	14,732	57	16,928	84	17,363	223	101,109
Grand Total, Presidency	48	7,526	13	1,219	52	29,188	113	37,933	225	79,045	491	196,090

(2) Protection from Fire.

23. The results of the measures adopted for the protection of forests from fire are shown in the following statement:—

Circles.	During 1896-97.			During 1897-98.		
	Area attempted in square miles.	Percentage of area attempted which escaped fire	Average cost per square mile.	Area attempted in square miles.	Percentage of area attempted which escaped fire.	Average cost per square mile.
			Rs. A. P.			Rs. A. P.
Northern	1,158	98	9 14 1	1,069	94	9 0 4
Central	2,362	98·5	5 14 7	2,379	96·7	5 9 8
Southern	1,843	99	7 8 1	1,873	89·7	7 3 7
Total ..	5,363	98·6	7 5 5	5,321	93·6	6 13 9

The area attempted to be protected was slightly larger than that in the previous year in the Central and Southern Circles, but fell short, by 89 square miles, in the Northern Circle, and 42 square miles for the Presidency. The amount expended during the year was Rs. 36,515 against Rs. 39,343 in the preceding year, the decrease being mainly contributed, by *Ganjám*, *Kurnool* and *Kistna* in the Northern Circle. In *Kistna* no fire-patrols were entertained, and the area shown in Form No. 51 was protected successfully by the ordinary establishment, without extra expense. The sum of Rs. 301 shown against the district, represents the cost of special establishment for June 1897, charged in the accounts of the year under report. The decrease in *Ganjám* is commensurate with the decrease in the area attempted to be protected, and was due in this district, as well as in *Kurnool*, to the curtailment of the budget allotment under this head. In *Trichinopoly* agreements were entered into with the Malayalis for keeping the boundary lines clear, and for preserving the forests from fire. The average cost per square mile, and the percentage of the area which escaped fire, showed a decrease both for the Presidency, as well as for each Circle.

24. In North Coimbatore the results are being carefully recorded on maps, but the reports from other districts contain no information on the subject, although the matter was pressed on the attention of all Collectors in paragraph 28 of the Board's report for the previous year. The origin of fires is generally ascribed to (1) incendiarism, and (2) to firing by the cowherds, in order to secure an even crop of young grass.

25. The percentages of fires in each district, to the area attempted, are compared with those relating to the season of 1896–97, in the following statement:—

Northern Circle.			Central Circle.			Southern Circle.		
Districts.	Percentage of fires to area attempted		Districts.	Percentage of fires to area attempted		Districts.	Percentage of fires to area attempted	
	In 1896-97.	In 1897-98.		In 1896-97.	In 1897-98.		In 1896-97.	In 1897-98.
Ganjám ..	3	2·8	Cuddapah ..	3	5·3	South Canara ..	2	0·6
Vizagapatam ..	12	2·0	Nellore ..	..	2·2	North Malabar ..	0·15	80·7
Gódávari ..	1	3·9	Chingleput ..	2	0·3	South do. ..	..	..
Kistna ..	..	0·1	North Arcot ..	1	2·6	The Nilgiris ..	2	0·2
Kurnool ..	3	37·4	South do. ..	0·2	4·4	North Coimbatore.	..	5·9
Bellary ..	2	0·7	Salem ..	5	2·5	South do.	0·5	4·5
Anantapur ..	4	0·5	Trichinopoly ..	..	0·1	Madura ..	0·6	19·4
			Tanjore ..	..	..	Tinnevelly ..	2	2·2
	2	6		1·5	3·3		1	10·3

The year under report showed a falling off in the results of fire protection, and the percentage of the area burnt, to the area attempted, was, as seen from the above statement, 6 in the *Northern*, 3·3 in the *Central*, and 10·3 in the *Southern Circles*, against

2, 1·5 and 1, respectively, in the year preceding. The results in *Ganjám*, *Vizagapatam*, *Kistna*, *Bellary*, *Anantapur*, *Chingleput*, *Salem*, *South Canara*, *the Nilgiris* and *Tinnevelly* were good. It is reported that the figures, regarding fire protection in *Vizagapatam*, are not sufficiently reliable. In *Gódávari*, the main fires occurred in the Bhadráchalam sub-division, where 4,434 acres were burnt. In *Kurnool* the percentage rose from 3 to 37. The Collector writes, "In a season like the past one, when the forests are very much parched, if once fires are started in the Nallamalais it is impossible to beat them out, owing to absence of villages and internal fire lines." The protection is considered to be inadequate, but it is noted that schemes are being formulated for the better protection of the forests. In *Bellary*, about Rs. 400 worth of timber was burnt in 10 (*b*) compartment, by the fire in the Ramandrug range, and about 600 seedlings of *Hardwickia binata* suffered on account of the fire in the Kupgal reserve. The success in *Anantapur* was doubtless due to cattle-owners having abstained from setting the grass on fire, fearing a repetition of the past season's scarcity. In all, four fires occurred, one covering 500 acres. The damage done was slight, and the fires are ascribed to accident. In *Cuddapah*, an area of 1,450 acres was burnt in the specially-protected Lankamalais block. The fire is reported to have crossed from the unprotected area during a high wind, before the staff could reach the spot. The increase in the percentage of the area burnt in *North* and *South Arcot*, *North Malabar*, *North* and *South Coimbatore*, and *Madura*, is ascribed to the dryness of the season. In *South Arcot* there were 25 fires, and 4,586 acres burnt. The fires in *Trichinopoly* occurred for the most part in treeless grassy portions. In *North Malabar*, all areas of deciduous forest in the Begur and Chedaleth ranges were burnt. A small area (10 acres) of young teak plantation at Begur was burnt, but much damage does not seem to have been caused, as the plants are reported to be as healthy as ever. A few acres under regeneration at Chedaleth, and 4 acres planted with mahogany last year, were also burnt. In *North Coimbatore*, an area of 42 and 477 acres, in the specially-protected Hasanur and Bylur sandalwood compartments respectively, was burnt, the fires being principally caused by incendiaries. The fire in the Hasanur compartment, though small in area, was specially serious, as it overran the two plots experimented upon for the natural reproduction of sandal. There were 13 fires in *South Coimbatore*, and it is reported that, owing to the large accumulation of combustible matter, due to absence of fires for several years, the fires during the year were not extinguished till they had burnt for six days. In *Madura*, there were no less than 71 fires, burning 41,767 acres of the specially-protected blocks. In the Cumbum range the fires are reported to have originated from the Travancore forests, where no attempts appeared to have been made, either to prevent fires, or to beat them out when they occurred. In *Tinnevelly*, it was found necessary to close some grazing compartments in the Ambásamudram, Nángunéri and Tenkási taluks, on account of the persistent firing of the forests by graziers.

(3) Regulation of grazing and protection from cattle.

26. Form No. 52 shows the areas opened and closed to grazing, in each district. In *Kurnool*, *Bellary*, *Anantapur*, *Cuddapah*, and in the Udayagiri and Atmakúru taluks of the *Nellore* district, the reserved forests were open to free grazing, more or less, during the first quarter of the year under report.

The total area of reserved forests and reserved lands, was 19,253 square miles. In 1,792 square miles, grazing was closed to all animals throughout the year, 300 square miles in the *Northern*, 284 in the *Central*, and 1,208 in the *Southern Circles*, against 311, 243 and 1,213 square miles, respectively, in the previous year. The causes, explained in the report of the preceding year, for the comparatively large area closed in the *Southern Circle*, hold good also during the year under report. The proposal, to throw open additional areas in *South Coimbatore*, was not effected, as the hill sides of the Pollachi taluk were burnt, presumably by cattle-owners as soon as they had an inkling of the intention to throw open the lands. The area open to all animals was larger than in the previous year, especially in *Bellary* and *Kurnool*. In the latter district the area open, consisted of the lands which were notified by the Collector at the close of the year as "reserved lands" under the rules under section 26, and no restrictions were imposed. Goat-browsing was not allowed in *Ganjám*, *Gódávari* and *Anantapur* in the

Northern Circle, in *South Arcot* and *Trichinopoly* in the *Central Circle*, and in all the districts of the *Southern Circle*. In *Kurnool* 2 square miles were reserved for goats, and in *Kistna* and *Bellary* they were admitted with other cattle in 242 and 452 square miles, respectively. The question of opening larger areas in *Kurnool*, in localities where the distribution of waste lands is not equally proportioned, is, it is noted, receiving the attention of the Collector. In *Ganjám* and *Gódávari*, no hardship was felt, because of the large area of unreserved lands. In *Anantapur* the increase of offences under "grazing without permission" was ascribed, during the year, to the illicit browsing of goats. In the *Central Circle*, larger provision was made during the year for goats, and they were allowed to browse in 61 square miles in *Cuddapah*, 35 square miles in *Nellore*, and 18 in *Chingleput*. In the *Salem* district one reserve of about 15 square miles, in the Uttangarai taluk, was open to goat-browsing in November 1897 as an experimental measure. In *North Arcot*, 12 square miles were made available. In *Tanjore* 168 acres were opened. In the *Southern Circle*, proposals to throw open some coupes in rotation in the *Madura* district are under consideration. The Board is not satisfied that sufficient provision has been made for goat-browsing throughout the Presidency and instructions are being issued on the subject. In *Anantapur*, *South Canara* and *North Malabar* no permits were issued for sheep, the reason being as regards the latter two districts owing to the heavy rainfall practically no sheep are kept. They were also not admitted in 511 square miles in *Gódávari*, 15 square miles in *North Coimbatore* and, 1 square mile in *Tinnevelly*, which were open to other animals, except goats. Grazing in the Coringa reserve in the Gódávari district was leased out, and the leasing system was continued in respect of the Padugais in Trichinopoly. It is noted that, in Nellore, arrangements have been made to replace the kancha system by that of the issue of permits, and that no sales of kanchas will be held from the currrent year. In *South Arcot* each reserve was treated as a separate grazing-ground, and a separate permit required for each reserve. The number of cattle admitted under licenses in reserved forests and reserved lands, is shown below:—

—	Buffaloes.	Bulls and cows.	Sheep.	Goats.	Horses.	Asses.
Northern Circle	56,218	290,218	311,431	94,040	..	3
Central Circle	26,642	542,599	464,943	67,424	1	..
Southern Circle	21,418	280,672	69,409	..	59	103
Total ..	104,278	1,113,489	845,783	161,464	60	106

The Koyas, Reddis and Telegas of the Bhadráchalam sub-division in the *Gódávari* district and the Malayalis in the Javadi hills in *North Arcot*, *South Arcot* and *Salem* were, as usual, allowed to graze their cattle free.

(*c*) *Improvement of Forest growth.*

(1) Natural reproduction.

27. Cattle, fires and incomplete protection, continue to retard natural reproduction, but taking the Presidency as a whole, the progress under this head may be regarded as somewhat satisfactory. The following is a *resume* of the district reports:—

Northern Circle.

Reproduction of sâl in *Ganjám* continued excellent. In *Vizagapatam*, the rapid growth of *Chloroxylon swietenia* from coppice was noticeable in all the coupes. In *Gódávari*, there was a prolific young growth of many useful species, particularly those of *Tectona grandis*, *Terminalia tomentosa* and *Hardwickia binata*. In the Peddapuram range, reproduction of *Xylia Chloroxylon* and *Anogeissus* was very promising. The coppice growth of *Acacia Arabica* in the Kuragalla reserve in *Kistna* was very encouraging, and there was also a good crop of seedlings and root-suckers. A considerable number ef seedlings of several species sprang up in the closed portion of the Kondapalle reserve, while the western portion of the Budavada reserve was becoming clothed with young forest, the chief species being *Acacias* and *Albizzias*, with a sprinkling of *Meila indica*. The reproduction of *Hardwickia binata* in the Bollapalle, Kakirala and Guttikonda reserves was satisfactory. This result is ascribed to the prohibition of goat-browsing, and restriction of general grazing. A large number of seedlings and root-suckers of this tree was

also coming up in the Kandlakunta reserve. In *Kurnool, Bellary* and *Anantapur* the year was unfavourable to natural reproduction, owing to the failure of the monsoon, and to the permission accorded to graze cattle free in reserves. In *Kurnool*, excessive fires did damage to the forests; the chief sufferers were *Tectona grandis, Dalbergia, Pterocarpus, Terminalia* and *Anogeissus*, the teak suffering most. In some places young crops of *Hardwickia binata* were coming up, but they showed signs of having been eaten and trampled down by cattle. In *Bellary* the production of date, and of *Acacia Arabica*, was fair in localities where these species grow; the growth of *Chloroxylon swietenia, Pongamia glabra Wreightia tinctoria* in the Gudikota reserve, and of *Butea frondosa* in the Kakkuppi reserve was good.

Central Circle.

In *Cuddapah* the year was a bad one for reproduction, both from seed and coppice, owing to the drought, which necessitated reserves being thrown open for free grazing of cattle. In closed areas *Anogeissus latifolia, Hardwickia binata, Chloroxylon swietenia* and *Cassia fistula* coppiced best. With regard to the experiment made in 1896, of cutting over an acre each month in Thanakonda and Kodur hill reserves in order to ascertain the results of coppicing, it is reported that the most favourable months for cutting over are July to September, and the worst months January to March. Satinwood (*Chloroxylon swietenia*) appeared, however, to have invariably coppiced well, without being affected by the season in which it was cut. In *Nellore*, regeneration from coppice and seed was satisfactory. In *Chingleput*, regeneration from coppice was somewhat affected by the drought, but that from seed in closed areas was good. In *North Arcot*, owing to the continuance of the drought, reproduction from seed was far from satisfactory, but that from coppice was fairly good, particularly *Chloroxylon swietenia*. The seedlings of bamboo in Chamala and Napier reserves were promising. In *South Arcot* coppice growth in the coupes was satisfactory, particularly that of *Butea frondosa, Wrightia tinctoria, Chloroxylon swietenia* and *Albizzia amara*. The growth of seedlings was far from good, except under shade and moisture. There was an abundance of seedlings in the hill forests, the chief species being *Tectona grandis, Anogeissus latifolia, Dalbergia latifolia, Pterocarpus marsupium* and *Terminalia tomentosa*. In the Annamalai forest, which has been regularly worked under a working scheme for the last five years, some interesting measurements of marked coppice shoots have been recorded, the results of which are given below:—

Species.	Height in feet.									
	Maximum.					Average.				
	Age.					Age.				
	1	2	3	4	5	1	2	3	4	5
Butea frondosa	10	13	18	..	16	7·5	12	14	..	14
Melia azadirachta ..	10	14	16	17	..	9·5	12·8	15	14·2	..
Wrightia tinctoria ..	11	12·5	15	13·5	18	8·7	10·3	13·3	12·2	13·5
Acacia sundra .. .	8	14	14	16	17	6·7	12·7	11·7	12	14·2
Grewia sp. . ..	11	13	12	17	15·5	10	10·7	10·5	14 3	14·2
Chloroxylon swietenia ..	8	10	11	14	17	6·4	8·8	9·7	12·2	15·1
Albizzia amara	5	8·5	..	9	11	3·9	7·5	..	7·5	9·7

Species.	Girth in inches.									
	Maximum.					Average.				
	Age.					Age.				
	1	2	3	4	5	1	2	3	4	5
Butea frondosa	7	9	12	..	17·5	5·1	7	9·4	..	13·4
Melia azadirachta ..	5	6·5	9	14	..	4	5·8	8·2	8·1	..
Wrightia tinctoria ..	6	7·2	11·5	7·5	11	4·7	5·6	8	6·6	7·6
Acacia sundra	6	8·7	9	10	8·2	4·7	6·7	7·7	7·5	7
Grewia sp.	6	7·5	8	10	14	5·3	6·1	7·2	8·4	8·6
Chloroxylon swietenia ..	4	5·75	8	7·5	14·5	2·7	4·7	6	6	9·1
Albizzia amara	2	4·2	..	4	7·7	1·5	3·5	..	4	5·6

In *Salem* reproduction from coppice continued to be fair. In *Trichinopoly* regeneration from coppice and seed was satisfactory, the chief species being *Inga dulcis, Acacia Arabica, Cassia*

florida, *Chloroxylon swietenia*, *Mimusops hexandra*, *Albizzia amara*, *Acacia planifrons* and *Memecylon edule* (casan). In *Tanjore* natural reproduction from seed was not encouraging, owing to the dry and sandy nature of the soil, while that from coppice was good. The coppice growth of casuarina on the coast in the plantations at Tirumalaivasal is being gradually replaced by artificial planting, as the former does not do so well as the latter.

Southern Circle.

In *South Canara* the coppice growth continued to be excellent, and regeneration from seed in the catechu blocks was also good. In *North Malabar* it is reported that all the young teak shoots of 1895–96 had been burnt, but they were again springing up. An experiment is to be made to assist natural reproduction by removing the undergrowth, and breaking up the soil near the seed-bearing teak trees. A large number of *Dalbergia* seedlings sprang up, specially in the burnt portions of the forest. Numbers of seedlings of jack (*Artocarpus integrifolia*) were found, and *Terminalia tomentosa* and *Paniculata* reproduced themselves freely from seed. In *South Malabar* there was abundant reproduction from seed of *Lagerstræmia microcarpa*, *Xylia* and *Terminalia tomentosa*. On the laterite soil, where teak died off, the blanks were filled up by *Xylia* and *Dalbergia*, the first-named being by far the most vigorous, and crowding out the latter. In Amarampalem, *Tectona grandis* and *Lagerstræmia* were coming on well in the better parts of the block. *Xylia* also appearing on the laterite, and *Terminalia tomentosa* at the edge of the swamps. The coppice growth in Walayar was fair, and there were also a few seedlings. In Chenat Nair, seedlings were plentiful. On the *Nilgiris* reproduction from coppice in the Eucalyptus plantations was, as usual, good. Some seedlings were noticeable in the open spaces within the plantations, where the undergrowth was not dense. There was a fair crop of sandalwood seedlings in parts of the Jakamaree reserve, and Melur slopes forests, and also in parts of Sigur range. Reproduction from *Tectona grandis*, *Pterocarpus marsupium* and *Dalbergia latifolia* was good in Sigur, Mudumalai and Benne. In the last-named two forests, there seems every promise of vigorous reproduction of these species, but it is not regular. The exclusion of fire, and extension of improvement fellings are expected to create a change for the better. Regeneration of teak from seed in *North Coimbatore* was poor, but that of *Terminalia tomentosa* and *Dalbergia* was good. A large number of seedlings of *Hardwickia binata* was found on the slopes between Ramapuram and Thathakarai. The sandalwood was extending both by seedlings and root-shoots, the former being especially noticeable in the fire-protected areas in Kollegal. The coppice reproduction of *Choloroxylon swietenia*, *Acacia sundra* and *Anogeissus latifolia*, was satisfactory. In *South Coimbatore*, large numbers of seedlings of *Tectona grandis* were observed springing up in the Tunacadavu range, on areas over which fires had passed. The coppice growth in Aiyarangal continued excellent, but that in Chinnar working circle was irregular, good in some parts and poor in others. In the deciduous forests of *Madura*, containing timber, reproduction from seed was very poor, on account of the thinness of the forest, and the rank grass fires. In *Tinnevelly* reproduction from coppice was satisfactory throughout the district.

(2) ARTIFICIAL REPRODUCTION, PLANTATIONS, AND CULTURAL OPERATIONS.

28. The area under plantations, topes, and cultural operations, together with the cost incurred thereon during the year under report, is given in form Nos. 53 and 54.

The following is a summary of the year's operations :—

In *Ganjám* 40 acres of the Agusti Nowgam plantation were planted with 48,400 casuarina plants, bringing the total up to 3,82,725 plants. The expenditure was Rs. 2,542, as compared with Rs. 9,484 in 1896–97. The plants put out are flourishing. The *Ceara rubber* plants, put out in 1895–96, are doing well, and are from 10 to 15 feet in height. The *Swietenia macrophylla*, planted at Russelkonda in 1896, mostly died. It appears to do best near the coast, and in moist garden soils. In *Gódávari* a sum of Rs. 220 was spent in adding nearly 8 acres to each of the two casuarina plantations at Narasapur and Bandamurlanka. In *Kistna*, 18 acres were planted with casuarina in the Gopuvanipalem reserve, 9 feet apart, and one hundred and seventy acres in Bápatla division with *Casuarina equisitifolia*, mixed with *Dalbergia sissoo*, *Pithacolobium dulce*, *Albizzia lebbeck* and *Pongamia glabra*, 20 feet apart. The casualties in both these places were numerous, owing to the unusually hot season. In the Chirala reserve 30 acres were planted with casuarina, 9 feet apart, and the casualties therein replaced with *Sissoo* and *Kanuga*. The plants look healthy and strong. The nurseries in the Weld plantation, and at Bápatla, are well-stocked. The chief work in *Bellary* consisted of the replacement of previous year's failures, by nursery-grown seedlings, mostly of *Hardwickia binata*. The cost of this work, and the watering charges of the previous year's plantings, amounted to Rs. 390. The pits that were made last year in the Toranagallu reserve, were filled and planted with *kanuga*, *nim*, and other indigenous species with moderate success, at a cost of Rs. 98.

In the Horsleykonda reserve in *Cuddapah* about 9,000 seedlings of various sorts were basketted and put out in blanks, but most of them perished owing to the drought. The species which have thrived best are *tamarind*, *Pongamia glabra* and *Anogeissus latifolia*. There was no addition to the plantations made during the year in *Nellore*, but the younger plants of the previous

year's plantations were watered. In *North Arcot*, the bamboos, teak and red sanders seedlings, which were planted out in 1894 in the Vellore range, have proved a failure in places, owing to the drought. In *South Arcot*, 62 acres were planted with casuarina in different localities, at an average cost of Rs. 15–13–0 per acre, against Rs. 9–5–0 in the preceding year. The increased rate is ascribed to the heavy and continued watering necessitated by the failure of the monsoon, and to the watering and maintenance of the previous year's plantings. The plants are in a healthy condition in all the plantations, except in certain unfavourable parts of one plantation (Nochikadu). The casuarina, obtained from the Tenasserim seeds, continues to be healthy and thriving. The experiment of bamboo planting, referred to in the last report, has not been altogether satisfactory. Want of seasonable rains has caused considerable casualties. In *Tanjore*, 44 acres were planted with casuarina in Tirumalaivasal, 4′ × 9′. The number of plants amounted to 52,000, and the plants are reported to be doing fairly well in the north plantation. In the south plantation, 2,000 plants died, and a similar number in the Neidavasal plantations was washed away by the sea. The plantations of the previous two years were maintained.

In *North Malabar*, the tuckle planting of teak was continued. The plantations of 1896–97 near Chedleth are doing well, except in one of four acres, where the plants materially suffered from the drought, only 80 plants per acre surviving. Two other plantations are being planted at Chedleth and Muthanga, and these, as well as those of 1897, are planted by the Kurumbers free of charge in their tuckles, on condition that they are paid at the rate of As. 8 per 100 surviving plants of one year old. On the same system planting was carried on in Begur during the year under report. The old plantations in Begur are doing well. Some bamboo clumps in Begur and Chedleth ranges were burnt, and the sites were sown with teak seeds as an experiment. In Kanoth range the old teak plantations have fared badly, having been attacked by caterpillars. The earlier plantations are reported to be growing well. Black-wood and Vengai, planted near Chedleth in Kurumber tuckles, are doing well, as also the one acre planted with Black-wood near the Muthangi Serambi cleared of Lantana growth. The sandal-wood plantation near Begur looks more healthy, some of the shade about it having been removed. Of the 300 plants put out last year, 100 are living and look healthy. In *South Malabar*, the 80 acres in Karimpoya reserve, prepared last year, were planted up with teak during the year, in accordance with the provisions of the working plan. A fresh area of 80 acres in the same reserve was felled, and the site prepared for planting. Twenty-four acres of the Ramalur plantation were felled, and replanted with teak, at a total cost of Rs. 1,750. An attempt has been made to fill up blanks, and swampy soils, in the Panangod plantations, and 800 seedlings of *Terminalia tomentosa* have been planted. In the *Nilgiri* district the period of five years, in the scheme for planting up waste lands in the Badaga villages at 100 acres per annum, having ended, and a separate report on the operations having been received, it has been decided to do nothing more, than to maintain the areas operated on, for five years to come, so as to afford time for judging. The area, experimented on, which amounts to about 250 acres, has been rather irregularly stocked with *Acacia Melanoxylon* and *Dealbeta*, and varieties of *Eucalyptus*, and the *Grevillea Robusta*, and it is reported that these promise better than the other plants. The Benne nurseries are well stocked with teak and mahogany plants, for use in "tuckle" grounds, and elsewhere. In *Madura*, in the blue gum plantation of Gundan shola, only 15,000 plants were put out. Of these, 9,000 died, owing to the failure of the north-east monsoon, and although these were replaced, the new plants are not doing well, for want of rain. Some mahogany plants were put out below the Tirtamantapam on the Alagar hill, and they promise well. In *Tinnevelly*, an attempt was made to start a casuarina plantation at Tuticorin, which was a failure; 75 per cent. of the plants died off, and it has been decided not to persevere with it.

In *Visagapatam*, date seeds were sown in two blanks of the Vemagiri reserve. In one blank, the plants died from continued drought, and in the other the seedlings in one acre are thriving. Seeds of *Terminalia chebula* (kadakai) were dibbled into the coupe fellings of Madalammakonda, but with indifferent success, owing to the damage by deer. In *Kistna*, four acres were ploughed and date seeds dibbled in, with the result that 20,000 seedlings sprang up; 12½ per cent. of these died owing to the unusually hot season during the year. In *Bellary*, broad-cast sowings, with seeds of various species, were undertaken during the year at a small cost, but the result was a failure, except in the case of date, of which a few seeds germinated. In *Anantapur*, 58 acres were sown with date seed, at an average cost of Rs. 2–11–10 per acre, and 5 acres with *Acacia arabica*, at Rs. 1–3–2 per acre. The result of the sowing with date in 36 acres proved a failure, owing to the drought, but as regards the remaining area, sown with date and babul, the operation was undertaken towards the close of the year, and it was too early to report results. In *Chingleput*, seeds of margosa, tamarind, *Albizzia lebbeck*, *Ingadulcis*, &c., *Jambulana* were sown in various reserves, and although 90 per cent. germinated, most of the seedlings died, owing to the prolonged drought. The area sown was 371 acres, and the expenditure incurred Rs. 166. In *South Arcot*, no areas in reserved forests were leased out during the year under report for cultivation of cashew (*Anocardium accidentale*) under the terms referred to in the last report, but proposals for extending the system are under consideration. In the Tiruvannámalai range 6 acres of land were sown with babul seeds. The seedlings are vigorous, numbering about 2,000, their average height being about 4 feet. In *Salem*, some sandal and nim seeds, sown during past years in the Kurumbapatti and Mallapuram reserves are doing well. In *Trichinopoly*, the area of 24 acres in the Kariappakkam extension reserved land, that had been sown with *Acacia arabica* and *Ingadulcis*, in patches of three feet apart, in the previous year, was washed away by the

floods during the year, with the exception of 10 acres. In *South Canara*, the dibbling of valuable species of seeds in certain reserves has not proved successful. The system of planting, in kumaried areas, with teak and other species, by the hill tribes, and paying them Rs. 1-4-0 for every 100 seedlings at the end of the season, has been introduced, and is working well. The Maraties (a hill tribe) were hitherto allotted 2 acres to each family for *kumari* cultivation, on payment of a rupee per acre, and on condition of their supplying labour for the department when required to do so, but this payment has now been dispensed with, and they are required instead to plant up the area kumaried on the terms referred to above. In *North Coimbatore*, the experiments begun in previous years, for aiding natural reproduction of sandal-wood in Bylur and Hassanur, by ploughing up the ground and sowing seeds, were continued. At Bylur a considerable number of seedlings have thus been obtained, and are fairly established, the oldest being four years old. At Hassanur seedlings germinated, but died for the most part at the end of the first year. In *South Coimbatore*, a sum of Rs. 239 was spent on ploughing 11 acres in compartment No. 7, and 2 acres in compartment No. 8, of the Tekadi leased forest, and dibbling in seeds of teak, vengai and rose-wood. The result was not known at the close of the year. In coupe 4 of compartment I of the Singaratope working circle, seeds of castor-oil, vagai and tamarind were sown in 2 acres, at a cost of Rs. 2-8-0.

(3) Early thinnings; (4) Other operations for the improvement of the growing stock.

29. In *Kurnool*, thinnings of bamboo clumps were continued, and creeper cutting was carried out over 4,000 acres, at a cost of Rs. 802. In *Cuddapah* a heavy thinning of the red-sanders plantation at Kodur was made. Although the trees are now thirty years old, they were found to possess a very small proportion of heartwood. Most of the plantations in *North Malabar* were weeded, and improvement felling was begun in the Kurichyat block of 400 acres, by leasing it out to a contractor for three years, at Rs. 4 per acre, on the condition of his removing all trees marked by the Ranger, and all creepers. In *South Malabar* thinnings were carried on at a cost of Rs. 619, while other operations, including weeding and parasite-clearing, cost Rs. 3,203. In *South Coimbatore* cutting and girdling of less valuable trees were carried out in the areas subjected to cultural operations in the Tunacadavu range, besides the cutting and removal of creepers and prickly-pear in certain coupes. In *Tinnevelly*, on the Mandanthorai plateau, the coupe watchers were made to remove the undergrowth around seedlings of valuable species.

(5) Experiments.

30. Experiments were continued during the year. The various important exotics tried, and the progress made during the year under report, are shown below :—

Acacia decurrens.—The growth of these on the Nilgiris is good.

Acacia pynantha.—Those on the Nilgiris continue to look seedy, and are of poor growth.

Acer Campbelli.—The plants on the Nilgiris continue to be healthy, but the growth is slow.

African seeds.—In South Malabar, of the 75 plants referred to in last report, only 8 are reported to be doing well.

Abies Douglasii.—The plants that survived in the Nilgiris last year, have all died.

Bucklandia populnea.—Planted in 1887 and 1888 on the Nilgiris. Growth fairly good on the whole.

Bamboos.—In Kistna 600 bamboo plants were put out over an area of 3 acres in the Weld Reserve, and they are doing well, with but few casualties. In South Malabar, *Bambusa longispathus* and *Cephalostachyum pergracile* on the river banks in Pokote and Mulathmanna, as well as *Arundinaria Brandisii* and *Dendrocalamus longispathus*, are doing well. *Arundinaria Brandisii* (giant bamboos), planted in Ayravallikava in 1879, continued to flourish. The circumference of the largest culm is 22 inches. The species is being propogated from shoots. Of the 35 shoots raised in 1896-97, 10 have been planted in the old Amarampoliem plantations, one in the office compound, and 11 in Ayravallikava. The remaining 13 shoots died. Of the *Bambusa vulgaris* planted in 1879, only one clump appears to be flourishing, others are backward in growth.

Ceara rubber.—Of the 435 trees in the South Arcot district, some have attained a height of 37 feet. No attempt has been made to tap the trees.

Cephælis Ipecacuanha.—Of the 92 that, remained on the Nilambur hill (South Malabar), all died. 13 in Ayravallikava are not thriving.

Date.—In Kistna, 5 acres, of Bandur fort reserve along the coast, has been dibbled with date seeds, without success. The plants in Allipuram plantation in the Nellore district, are reported to be a failure. The plants do not flourish there. In North Arcot, out of the 100 plants referred to in previous year's report, 40 have died, owing to prolonged drought. None of the rees in South Arcot have flowered. Those in the Anamalai reserved forest have developed 10

offshoots, 6 of which have been transplanted. In Salem, all the plants of 1889–1890, and 1890–91, are said to have died, except a few in Dharmapuri and Tirupatur ranges. In Trichinopoly, of the 172 seedlings planted in previous years on the Pachamalais, only 13 have survived, the soil and climate not being suited to the growth. Their average height at present is reported as between 5 and 6 feet. In Tanjore, of the 225 plants put out in 1881 in the South Date garden, Vettangudi reserved forest, 14 survived, but there is no improvement in the growth, the greatest height at the commencement and close of the year being 11 feet 3 inches, and 13 feet respectively. Of the 100 offsets that were planted in 1886, 66 survived at the commencement of the year, of which 5 died during the year. Of the 221 plants planted in 1881 in the North Date garden in the Vettangudi reserved forest, 136 trees survived, varying from 4 to 15 feet in height. Besides these there are 139 offsets. The dates have not fruited.

Dillenia indica.—Seedlings in South Coimbatore are doing well. 95 remain.

Divi Divi.—In South Arcot the yield in Tindivanam has not been good, owing to insufficient rainfall. In South Canara it has been a failure.

Ficus elastica.—In North Malabar some seed was obtained from Assam during the year, but none of it germinated. The cuttings put out last year at Begur and at Manantoddy, are growing vigorously, though some of the former have died, owing to unfavourable weather.

Hevea braziliensis.—The trees in North Malabar are doing well. They are reported to be bearing seed.

Mahogany.—The young trees at Gazulapalli, and near Chelama in Kurnool, are doing well. In Cuddapah 510 seeds were put down in July 1897, but only 37 seedlings appeared, and of these only 15 survive, and these are not healthy. Of the 1,050 seeds, sown in previous year, 382 seedlings appeared and were basketted. They are healthy. Of the 80 seedlings planted in the Casuarina plantations of the Nellore district, only 37 are alive. The cause of the death of the remainder is reported to be due to an insect at the roots. The 4 seedlings referred to in the previous year's report, are reported to be doing well. Plants put out in the Chittoor and Casuarina plantation ranges in the North Arcot district, proved a failure. In South Arcot 3,000 seeds were sown in the Ramapuram reserved forest, but only 26 have germinated, and of these only 18 survive, owing to scarcity of water. In Trichinopoly the 25 plants in the Udayárpálaiyam range, referred to in previous year's report, are still alive, and the height and girth of some of them range from 6 feet 4 inches, to 15 feet 3 inches. All the 110 mahogany plants in the Madanathoor plantation, which had germinated from seed at the end of the previous year, were destroyed by floods. In Tanjore, of the 24 plants planted in 1886 in the Vettangudi reserved forest (nursery), 16 survived, and they vary in height, from 10 to 22 feet, and in girth from 9 inches to 2 feet 6 inches. The two plants in the South Date garden in the Vettangudi reserved forest, referred to in previous year's report, are in height 12′ 3″ and 13′ 6″, and in girth 7″ and 1′ 3″ respectively. Of the 5 plants in the same reserve, referred to in last year's report, one died and the remaining 4 vary in height from 15 feet 3 inches, to 32 feet, and in girth from 1 foot to 2 feet 9 inches. In South Canara the plants in Puttur are reported to fare better, the maximum height of a three years' old seedling being 17¾ feet, and girth 12 inches. At Wandse depot the plant does not thrive well. In North Malabar, the mahogany planted out in June 1897 at Chedleth mostly died, owing to absence of rain. The rest were burnt during the fire season. The 9 plants, given last year to Mr. Macdonald of Karticolum estate, were attacked by borer in August and all died. Of three hundred plants put out at Muthanga serambi last year, only 18 survive. The plants at Kanoth are doing well, one being nearly 30 feet high. In South Malabar the single *Swietenia* macrophylla tree in Chathambarai, measures 87 feet in height, and 74 inches in girth, against 86¾ feet in height and 70 inches in girth last year. The Swietenia mahogany planted in Tiruvallikava, Ramalur, and Panangad, and referred to in previous report, is reported to be stunted in growth for their age. Those planted in site C attached to plantation 44 of Ramalur, were clean felled with that plantation during the year, in accordance with the working plan. The trees were very small. The *Swietenia macrophylla*, planted in Pokote and Edacode, are doing well. Of the 95 plants put down in the District Forest-office compound in the previous year, more than half the number have died, the average height of the remainder is 3 feet. Out of the 3 lb. of seed sown in the Nilambur range last year, 700 seeds germinated, of which 329 plants died. In the Amarampoliem range, 1,125 seeds were put out in bamboo pots, from which 432 healthy seedlings were obtained. About 6,000 seeds were put down in bamboo pots in Pokote. Of these 4,000 have germinated. The plants in Walayar are not doing well. Those in Dhoni continue to thrive. In the Nilgiris, the mahogany planted in the experimental block near Benne, has proved a failure. The trees in the Kullar nursery are doing well. In South Coimbatore, Mahogany seeds were sown during the year in the Bollampatti, Pollachi, and Udamalpet ranges. In the Bollampatti range, they were sown in the Chinnar and Sholakarai working circles. In the former none germinated. In the latter, of the 978 seeds sown, only 31 germinated, and 29 plants are in good condition. In Pollachi range the seeds were sown at Lower Ponnachi. Only 4 seeds germinated, of which 3 seedlings died, and 1 is reported to be in good condition. In Udamalpet range the seeds were sown near Easalammanthurai, and only 13 germinated, 6 of the seedlings died, and 7 survive. Of the mahogany plants planted in 1890 in the Kuvandamalais in the Madura district, only 3 have survived, their height varying from 6 feet to 8 feet 3 inches, and their girth from 5 inches to 6 inches.

Peltophorum ferrugineum.—Of the 30 trees planted in 1886 in the Vettangudi reserve forest. 24 survive and are doing well. The height varies from 20 feet to 45 feet, and the girth from 1 foot 9 inches to 4 feet.

Syncarpia Laurifolia.—The growth of these plants on the Nilgiris continues to be good.

(d) *Exploitation of Major Forest Produce.*

(1) Clear or regeneration fellings.

31. In *Kistna* the Allinagaram plantation, which contained a stunted and irregular growth of casuarina trees, was cleared, to make room for better trees. The prescribed casuarina coupes in *South Arcot* and *Tanjore* were cut over. In the latter district 45 acres were felled over by contractors, the trees being sold standing. The yield amounted to 361 tons of sized wood, and 179 tons of unsized wood, and the rate realized per ton was Rs. 4–12–0 for the former, and As. 12 for the latter. In *South Malabar* 80 acres of forest, in coupe No. 1 of the Karimpoya reserve, were cleared for teak planting. The contractor paid Rs. 3,150 for the timber and bamboos standing thereon. The Ramalur plantation (24 acres) was also clean felled, and the site replanted with teak.

(2) Selection fellings.

32. The only departmental operation in *Ganjám*, was the felling of sâl (shorea) for the Gun Carriage Factory. About 4,000 cubic feet were cut, and the parts that were not sufficiently large to meet the requirements of the factory, were cut into sleeper logs, and carted to Russellkonda. In *Gódávari*, large quantities of teak, and other reserved trees on unreserved lands, in the sub-division, were cut by permit-holders, after the trees were marked. In Yernagudem range, selection fellings were carried on by contract. In *Kistna*, casuarina, and some miscellaneous timbers, were cut to meet the demands of the Bezwada-Madras Railway, and of private individuals. In *Kurnool* the collection of valuable timbers, for supply to depots, was continued, and in view to a sustained yield, valuation surveys are being considered. The operations in *Bellary* were very limited, as there was a stock, of the previous year's quantity, remaining unsold at the beginning of the year, and in *Anantapur* they were limited to the marking of palmyra trees for removal. In *Chingleput*, the departmental fellings consisted of the dead and dying casuarina trees and babul wood, for supply to the Chingleput Reformatory School and the Ordnance Department, respectively. Four hundred and fifty-nine tons of crooked and branch wood, which resulted from the fellings, were sold to private contractors, at rates varying from Rs. 2–8–0 to Rs. 4 per ton. In *North Arcot*, bamboos were felled and supplied to the Ordnance Department, for lance-staves and tent-poles, and to the Police Department, for latties for the use of ghaut taliaries. Dead and dying casuarina trees were also felled and supplied to the Central Jail, at a net profit of Rs. 3–12–0 per ton. In *South Arcot*, babul trees were selected and felled for conversion into tent pegs, of which 242 tons were supplied to the Ordnance Department, and also into engine fuel, of which about 400 tons were delivered to the South Indian Railway. One thousand one hundred and sixty babul trees, yielding about 670 tons of billet wood, were also selected, and were felled, by a contractor of the Public Works Department, at the request of the Executive Engineer. In *Trichinopoly*, selection fellings of babul (*Acacia arabica*) were carried out departmentally, and the felled material, consisting of 7, 155 cubic feet of wood, was supplied as fuel to the Trichinopoly Central Jail. In *Tanjore*, casuarina trees were felled, and the poles, 72 in number, were supplied to the Tahsildar of Shiyali, for closing breaches in the banks of the Coleroon river. Two hundred trees were felled in *South Canara*, and yielded 369 logs. These, together with the previous year's stock of 569 logs, which remained in the forest unremoved, amounted to 938 logs, of which only 425 had reached the sale depots at the close of the year, owing again to difficulty in carting. In *North Malabar*, selection fellings yielded 46,149 cubic feet of timber cut by the department. Dead and dying trees, previously marked by the Range officer, were removed by contractors. Selection fellings were carried on in *South Malabar*, both by the department and by contractors, the trees in the latter case being marked by Range officers. The operation yielded 153,658 cubic feet, of which 120,246 cubic feet came from 3,955 acres of coupe No. III of the Karimpoya reserve, 25,502 cubic feet from 15,203 acres of the Chenat Nair reserve, and the rest from the Punakadu reserve, and the new Amarampalem forest. One thousand six hundred and

eighty-five cubic feet of miscellaneous timber were extracted from the Talamalai and Doddasampagai reserves in *North Coimbatore*, but the sales were not satisfactory. In *Tinnevelly* selection fellings were carried on both by the departmental agency, and by contractors. The fellings conducted departmentally were for saplings required for departmental use. Six thousand and three hundred cubic feet were removed by contractors, the trees having been marked by departmental officers.

(3) Improvement fellings and (4) Coppice fellings and coppice with standard fellings.

33. In the *Northern Circle* improvement fellings were carried on in *Vizagapatam*, *Kistna*, *Bellary* and *Kurnool*. In *Vizagapatam*, coupes, to the extent of 100 acres in the Madalammakonda and Arlova reserves, were felled. The material obtained was sold as timber, fuel and charcoal, and yielded an average net profit of Rs. 4 per acre, against Rs. 1–8–0 in the preceding year. The babul area in *Kistna* was operated on in accordance with the working plan. The Mangrove working circle was not cut over, owing to the silting up of the Hamsaladivi channel. In the Kondapalli reserve, bamboos were cut under regulations, coupes were marked off, and a certain number of bamboos were permitted to be cut from each clump, the total number of bamboos cut being put up to auction. In *Bellary*, the coupe of 200 acres in the Neraniki reserve, sold in 1896–97, was not completely felled. Two coupes of 410 and 120 acres were sold in the Hyrada reserve to iron-smelters, under the system of coppice with standards, at Rs. 2 per acre. In *Kurnool*, improvement fellings were carried out over 113 acres at Chelama.

In the *Central Circle*, 1,255 acres were treated under coppice with standards, and the wood was supplied to the Madras Railway. The cutting was done by contractors, and the average price obtained was Rs. 13–1–0 per acre. Under similar system, sixteen coupes, aggregating an area of 2,413 acres, were sold in the *Chingleput* district, and in *North Arcot*, 5,010 acres were sold, at an average rate of Rs. 5–8–5 per acre. In *South Arcot*, coupes in two reserves were felled over departmentally for supply of engine fuel to the South Indian Railway, and a coupe in one reserve was selected and allowed to be cut over by permit holders, standards, about 20 per acre, being left, and the stools being trimmed by the purchasers of permits. Coupes in eight other reserves were coppiced by contractors. The total area of the coupes amounted to 1,367 acres. In *Salem*, several coupes were opened for working departmentally, as well as by contractors, in connection with railway fuel and local supply. Seven Casan (*Memecylon*) coupes, covering an area of 795 acres, were sold to contractors in the *Trichinopoly* district, and thirteen other coupes, comprising 470 acres, were worked as coppice with standards. The felling over seven coupes was conducted departmentally for supply of engine fuel to the South Indian Railway, and the right of felling over the remaining six coupes was sold to contractors at public auction. Three coupes of 106 acres, in the Vettangudi reserved forest in *Tanjore*, were sold standing, the price realized being Rs. 355.

In the *Southern Circle*, coppice fellings were conducted in five blocks by contractors, and departmentally in Sabladi, where 20 acres yielded 5,570 cubic feet of fuel, the cost of felling being Rs. 224, and the revenue Rs. 350. In *South Malabar*, 486 trees of inferior species, were cut from the Karimpoya block under improvement fellings. In *Madura*, three coupes, aggregating an area of 132 acres, were sold for Rs. 871; and 251 acres of tank-beds containing babul trees, estimated to yield 500 tons, were sold for Rs. 3,215. One coupe in Alagar Hill, and one in the Sirumalais, were worked as coppice departmentally, 66 acres yielded 383 tons of fuel, at a cost of Rs. 304, the revenue realized being Rs. 877.

(5) Unregulated fellings.

34. The system of felling and removal under permits, continues to prevail in almost all the districts. In *Gódávari*, teak, in the form of poles, has been removed from unreserved lands on permits in the sub-division in large quantities, the trees being marked prior to felling. A similar system was attempted in Yernagudem, but not persisted in. In *Anantapur*, permits were issued for the removal of first, second and third class timbers from forest reserves, and also from unreserved lands, and for bamboos and firewood in the former. Greenwood from reserves was removed on permit for sugar manufacture. In *Chingleput*, only thorns were allowed to be removed from reserves

under permits. From unreserved lands, the local demand for firewood and timber, for house building and agricultural implements, continued to be met by the issue of permits, by permit-issuing officers and range officers. In *North Arcot*, a few permits were issued for building materials and fuel, when such produce was not available from coupes in the neighbourhood. In *South Arcot*, the permit system was discouraged, but permits were sometimes issued for the removal of dead wood, gravel, stone, &c., from reserved and unreserved areas, and in some cases for standing trees. In *North Malabar*, the free grant of inferior kinds of timber, and some fuel and bamboos, was included under unregulated fellings. In *Tinnevelly*, a certain number of babul trees in tank-beds were felled by purchasers. Only trees above $2\frac{1}{2}$ feet in girth were marked for sale.

(*e*) *Extraction and transport of Major Forest Produce by land and water.*

35. There is nothing to be recorded under this head which has not already been reported. As stated in previous reports, the chief means of transport are by carts, tramways, water, and rail, and where produce is extracted from forests difficult of access, elephants are employed. In the report for 1896–97, it was stated that the experiment of floating timber down the Bhaváni above Méttupálaiyam in *South Coimbatore* was unsuccessful, and that a further trial would be made during the year under report with smaller logs. The experiment was accordingly made, but the result was again a failure, owing to the existence of several large outcrops of rock in the bed of the river.

(*f*) *Exploitation of Minor Forest Produce.*

(1) Extraction of fodder.

36. Owing to the continuance of the drought which prevailed in the previous year, reserved forests in several districts in the *Northern Circle*, and in North Arcot in the *Central Circle*, continued to remain open for free grazing, and for the cutting of grass during the early months of the year. In *Kurnool* and *Kistna*, free grazing was permitted during the first two and three months, respectively. In the latter district, free removal of leaves for fodder, other than the six species referred to in the report for last year, was also allowed. In *Bellary* and *Anantapur*, large quantities of fodder were allowed to be removed from all the reserves on free permits. In *Chingleput*, permits for cutting and removal of thatching grass were issued at the rate of 3 pies per headload, and in certain cases the right to collect the same was leased out, and a sum of Rs. 73 realized. In the Anamalai reserved forest in *South Arcot*, 4,542 headloads of green grass, at 3 pies per head, were cut and removed by ryots, for the cattle brought for sale at Tiruvannámalai. In *Trichinopoly*, either permits were issued on payment for the removal of grass, or the right to cut grass, for periods of not more than a year, was sold by public auction. In *South Canara*, the right to cut and remove grass was as usual sold by auction, and a sum of Rs. 361 realized, against Rs. 334 in the previous year. In *South Malabar*, no other fodder than grass from the Chenat Nair and Walayar forests was extracted.

(2) Grazing.

37. During the year under report, the question of treating certain areas as "special tracts," for the purposes of grazing, was considered, and the orders of Government obtained for the levy of increased rates in those tracts. The enhanced fees were, however, not enforced during the year, except in *Bellary* and *North Coimbatore*. The ordinary rate was generally three-fourths of the old maxima.

The grazing revenue decreased by Rs. 12,449, and the following abstract compares the results of the present, with those of the previous year:—

——	1896-97.	1897-98.	Difference.
	Rs.	Rs.	Rs.
Northern Circle	1,27,255	1,10,480	— 16,775
Central ,, ...	1,78,470	1,77,021	— 1,449
Southern ,, ...	70,629	76,404	+ 5,775
Total ..	3,76,354	3,63,905	— 12,449

In the *Northern Circle*, *Ganjám*, *Gódávari* and *Kurnool* showed an increase, which was, however, more than counterbalanced by large decreases in *Kistna*, *Bellary* and *Anantapur*. In *Gódávari*, the revenue rose from Rs. 4,119 to Rs. 9,580. The increase is ascribed to better supervision and check of cattle grazing within the reserves, and to the levy of fees, in the Yellavaram division, on cattle coming from the delta. The better promise for the season, after September, is reported to have contributed to the increase of Rs. 6,428 in *Kurnool*. The increase in *Ganjám* was due to the adoption of rates at three-fourths of the old maxima. The revenue in *Kistna* decreased by Rs. 15,135, and the fall during the last three years is striking, the figures for 1894–95 and 1897–98 being Rs. 90,144 and Rs. 55,254, respectively. The decrease was due to the drought, and the consequent emigration of breeders to the Nizam's Dominions, also to fewer foreign cattle being pastured within the reserves, and also to the reduction of rates by 25 per cent. In *Bellary*, where also there was a large decrease (Rs. 12,168), the number of animals licensed was considerably less than in the previous year, as grazing was regulated only from October. As in Bellary, the decrease in *Anantapur* was due to free grazing being allowed till 30th September, and to the abundance of pasturage obtainable free from the unreserved lands after the concession was withdrawn. In the *Central Circle*, the large decrease of Rs. 19,934 in *Cuddapah* was counterbalanced by an almost equally large increase of Rs. 19,049 in *South Arcot*. *Trichinopoly* and *Chingleput* showed also an increase of Rs. 2,860 and Rs. 1,845, respectively, and *Salem* a decrease of Rs. 4,082. The decrease in *Salem* is ascribed to the abandonment of certain reserved lands, that in *Cuddapah* to free grazing allowed during the early part of the year. The increase in *Chingleput* was due to the adoption of a better method of collecting grazing fees, that in *Trichinopoly* to more efficient control, and to the throwing open of some more padugais. The increase in the number of animals for which licenses were taken, and credited in the accounts of the year under report on account of grazing to be permitted in the current year, contributed to the increase in *South Arcot*.

In the *Southern Circle*, in all the districts, except *North* and *South Coimbatore* and *Madura*, the revenue was less than in 1896–97, but the decrease was small. In *Tinnevelly* it fell from Rs. 7,855 to Rs. 5,983, and is accounted for by the fact, that the revenue due for the year was realized during the previous year, and that sufficient pasturage was obtainable elsewhere free of charge. In *Madura*, the increase of Rs. 1,529 was due to better supervision, while that in *North Coimbatore* (Rs. 7,117) and *South Coimbatore* (Rs. 578), to the increase in the number of animals licensed.

(3) Miscellaneous produce.

38. As stated in previous reports, the collection of miscellaneous produce was, with but few exceptions, undertaken by contractors under leases. In *Vizagapatam*, the contract system was in force during the year in Golgonda, but resulted in a loss to the contractor, caused by his own lax supervision. In *Palkonda*, produce was collected departmentally. In *Gódávari*, the leasing system was adopted in two taluks, but proposals for the whole district are now before Government, and awaiting further information from the Conservator. In *Anantapur*, minor produce was continued to be leased out, except leaves for manure, which, in this district, as well as in *Tanjore* and *Madura*, were removed on permits. The demand for manure leaves in the last-named district is increasing, owing to a large extent of land having been brought under wet cultivation under the Periyár irrigation scheme. Preparation of working plans for blocks supplying leaves for manure is under the consideration of the District Forest-officer. The revenue from two ranges rose from Rs. 3,171 to 3,985 and from Rs. 20 to Rs. 567, respectively, during the year. In *Chingleput*, *North Arcot* and *Trichinopoly*, the collection of *divi-divi* pods was undertaken departmentally. In *South Canara*, about 17 tons of catechu were manufactured at a cost of Rs. 192 a ton, as against Rs. 216 in the previous year. The revenue realized amounted to Rs. 836 a ton, against Rs. 715 in 1896–97. The quantity was obtained from 5,148 trees. Twenty-eight sandal and cinnamon stills were worked, and gave Rs. 128. Twenty-two cinnamon oil stills were worked, and Rs. 112 were realized. The chief item of minor produce in *North Malabar*, is the gum-kino. It is noted that proposals are under the consideration of the Collector for preparing the gum in a more careful way.

CHAPTER III.—GROSS YIELD AND OUTTURN OF FOREST PRODUCE.

39. The subjoined abstract shows the total yield under timber and other produce during the year, as compared with the results of the previous year :—

ABSTRACT I.—Comparative yield as per Forms Nos. 55, 56, 72A and 72B.

—	Timber (in cubic feet) including sandalwood.		Fuel (in cubic feet).		Bamboos (in numbers).		Minor produce (gross value in rupees).	
	1896-97.	1897-98.	1896-97.	1897-98.	1896-97.	1897-98.	1896-97.	1897-98.
1	2	3	4	5	6	7	8	9
By Government Agency ..	449,988	412,399	2,450,068	2,086,473	229,852	258,738	47,746	50,921
By purchasers (including confiscations)	2,107,635	2,142,931	9,467,371	9,573,202	30,437,257	28,833,424	* 852,453	* 905,832
By free grants	82,951	62,652	7,212	5,168	157,961	203,573	1,773	1,829
By right-holders	1,702	1,811	257,541	257,585	21,614	21,314	40,767	40,411
Total ..	2,642,276	2,619,793	12,182,192	11,922,428	30,846,684	29,317,049	942,739	998,993
Increase or decrease in 1897-98 as compared with 1896-97	..	— 22,483	..	— 259,764	..	—1,529,635	..	+ 56,254
Percentage of increase or decrease over the previous year's total	..	— ·8	..	— 2·1	..	— 4·9	..	+ 5·9

* Includes grazing fees.

The result under all heads, except minor produce, shows a decrease, and the causes of the difference are explained below under the respective items.

Section I.—Departmental Operations.

40. The following abstract shows the produce collected and disposed of departmentally during 1896-97 and 1897-98 :—

Produce collected.	During 1896-97.			During 1897-98.		
	Quantity.	Cost.	Average.	Quantity.	Cost.	Average.
1	2	3	4	5	6	7
		Rs.	Rs. A. P.		Rs.	Rs. A. P.
Timber .. .. C. ft.	447,438	67,287	0 2 5	410,039	59,062	0 2 4
Fuel .. .. „	2,450,068	1,10,388	0 0 8	2,086,473	1,01,118	0 0 9
Bamboos .. .. No.	229,852	4,576	0 0 4	258,738	4,751	0 0 4
Sandalwood .. .. C. ft.	2,550	2,645	1 0 7	2,360	2,756	1 2 8
Minor produce .. .. Mds. (25 lb.)	49,143	15,644	0 5 1	34,188	16,563	0 7 9
Total ..	..	2,00,540	..	..	1,84,250	..

Produce disposed of.	During 1896-97.			During 1897-98.			Stock on 1st July 1897.	Stock on 30th June 1898.
	Quantity.	Cost.	Average.	Quantity.	Cost.	Average.		
	8	9	10	11	12	13	14	15
		Rs.	Rs. A. P.		Rs.	Rs. A. P.		
Timber .. .. C. ft.	367,693	1,76,885	0 7 9	413,996	2,29,669	0 8 11	323,391	319,434
Fuel .. .. .. „	2,564,100	1,88,079	0 1 2	2,265,967	1,73,419	0 1 3	835,820	'656,326
Bamboos .. .. No.	229,881	10,086	0 0 8	260,314	9,223	0 0 7	19,747	18,141
Sandalwood .. .. C. ft.	1,797	15,720	8 12 0	3,911	33,699	8 9 10	1,955	404
Minor produce. Mds. (25 lb.)	51,091	34,837	0 10 11	71,821	32,291	0 7 2	79,508	41,875
Total ..	..	4,25,607	..	..	4,78,301	..	..	..

Compared with the collection of the preceding year, the total quantity collected under timber, fuel, sandalwood and minor produce, shows a decrease, while that under bamboos shows a slight increase. The decrease under timber is noticeable particularly in *Kistna*, *Bellary*, *Cuddapah*, *South Canara*, *North Malabar* and *South Coimbatore*. In *Kistna* the decrease was due to smaller number of trees available in coupe No. 4 of Gopuvanipolem reserve; and in *Bellary* to absence of fellings in the Eastern slopes of Ramandrug range according to the working plan. The small collections made of redwood roots and stumps in the *Cuddapah* district, accounts for the large decrease in that district. The decrease in *North Malabar* was due to the felling operations not having been pushed on by the Ranger in May and June as rapidly as in the previous year. In *South Coimbatore* it was due to smaller quantity felled in the Tekadi leased-forest, and to the closing of the Sholakarai working-circle for a period of rest. No explanation has been furnished for the decrease in *South Canara*. The decreases in the above-named districts were somewhat counterbalanced by the increases which occurred, chiefly in *Kurnool*, *South Arcot* and *South Malabar*. The increase in *Kurnool* is ascribed to the opening of a third depot at Rudravaram, and to the collection of a large quantity of timber at the two existing depots, with a view to give labour to Wodders working for the department, and to the Chenchus on account of the unfavourable season which prevailed at the beginning of the year. The supply of babul billets to the Madras Ordnance Department accounts for the increase in *South Arcot*. In *South Malabar*, it is attributed to a larger number of trees having been felled from coupe No. III of Karimpoya reserve than was estimated, and partly to the clean felling of 24 acres in Ramalore.

Under "fuel" there was a noteworthy decrease in *Vizagapatam*, *Kistna*, *Bellary*, *Cuddapah*, *Nellore*, *South Arcot*, *Nilgiris*, *South Coimbatore*, *Madura* and *Tinnevelly*. This decrease was somewhat made up by increases in *Kurnool*, *Chingleput*, *Salem* and *Trichinopoly*. As observed in the previous year's report, the decrease was generally due to the substitution of private working. The decrease in *Bellary* was due to causes already explained under "Timber." The supply of engine fuel in *Cuddapah* through private agency, accounts for the decrease. The decrease in *Nellore* is ascribed to the prevalence of fever on the coast, and the consequent difficulty of procuring coolies, and also to the Bezwada-Madras State Railway works, where coolies were paid higher rates than those paid by the department. In *South Arcot*, the indent from the South Indian Railway was for a smaller quantity during the year, than that indented for in the previous year. The cessation of demand from the Commissariat Department accounts for the decrease in the *Nilgiri* district. In *South Coimbatore* the decrease was due to the closing of the Sholakarai working circle for rest; to the working of coupe 1 of compartment I of the Chinnar working circle by a contractor; and to absence of collection in Singaratope working circle, owing to want of labour. In *Madura* there was a cessation of departmental working. In *Tinnevelly* half the Padarmalai coupe was given over to a contractor at a fixed rate per acre, instead of the whole coupe being worked by departmental agency as in the previous year, and this accounts for the decrease in the departmental collection. No explanation has been furnished for the decrease in *Vizagapatam* and *Kistna*. The increase in *Kurnool* was due to the working of improvement fellings at Chelama, and also to the removal of babul trees from some waste lands in Veldurti village, which were given in exchange for some patta fields included in Veldurti reserve. Further the collection of charcoal for the depot at Rudravaram was undertaken during the year to meet local demand, as the burning of charcoal by purchasers themselves in the forests was prohibited. The increase in *Chingleput* was due to the sale of babul wood to the Ordnance Department, and to private contractors on a larger scale, and to the sale of casuarina wood to the Reformatory School at Chingleput. In *Salem* the supply of a larger quantity of engine fuel to the Madras Railway Company accounts for the increase. The increase in *Trichinopoly* is attributed to the larger indent received from the South Indian Railway, and to arrangements made for carrying on felling operations through contractors.

Under "Bamboos" there were large increases in some districts, slightly counterbalanced by decreases in others. *Kurnool*, *South Malabar* and *North Coimbatore* contributed chiefly towards the increase, while *South Arcot* and *South Coimbatore* showed decreases. The services of an extra forester having been available in *Kurnool*,

larger collections were made in that district. The increase in *South Malabar* was due to the floating down to Kallai of big teak logs, a large number of which was cut during the year. In *North Coimbatore* there were extensive operations by departmental agency. The decrease in *South Arcot* and *South Coimbatore* was due to absence of demand.

Under "sandalwood" there was a slight decrease, which occurred chiefly in *North Arcot* and *Salem*. This decrease was however partly counterbalanced by an increase in the *Nilgiris*. The decrease in *North Arcot* was due to the closing of sandalwood areas to felling, and that in *Salem* to restrictions also imposed on felling. In the *Nilgiris* the increase was due to a better demand.

Under "minor produce" the decrease occurred chiefly in *Vizagapatam*, *North* and *South Coimbatore*, and was partly counterbalanced by an increase in *Nellore*. The decrease in *Vizagapatam* is accounted for by a smaller quantity of rela and avuru grass being collected during the year, than in the previous year. The decrease in *South Coimbatore* was due to new coffee estates absorbing some of the labour hitherto employed on the collection of minor produce. No explanation has been furnished for the decrease in *North Coimbatore*, nor for the increase in *Nellore*.

Under "disposals," the total quantity shows an increase under all heads except "fuel." The increase under "timber" occurred chiefly in *Ganjám*, *Kistna*, *South Arcot*, *North Malabar* and *South Malabar*. It was somewhat counterbalanced by decrease in *Cuddapah*, the *Nilgiris* and *South Coimbatore*. The increase in *Ganjám* was due to brisk demand at Russelkonda, and that in *Kistna* to large supply of piles and poles to the Bezwada-Madras Railway, and to auction sale of the stock in Tenali depot. The increase in *South Arcot* was due to causes already explained under collections, and that in *North Malabar* was due to disposal during the year of a considerable portion of the timber felled during the previous year. No explanation has been furnished for the increase in *South Malabar*. Want of sale for redwood roots in *Cuddapah* accounts for the decrease in that district. In *South Coimbatore* it is reported that the teak timber contractor removed a very large quantity of teak in 1896–97 after paying for it, and removed the balance, which was only small, in 1897–98. No explanation has been furnished for the decrease in the Nilgiris.

The disposals under "fuel" which show a decrease, occurred mainly in *Vizagapatam*, *Bellary*, *Cuddapah*, *Nellore*, *South Arcot*, the *Nilgiris*, *South Coimbatore*, *Madura* and *Tinnevelly*. On the other hand there were increases in *Chingleput*, *North Arcot*, *Salem* and *Trichinopoly*. In *Tinnevelly* the disposals represent not fuel, but fuel converted into charcoal, and this accounts for the apparent decrease. No explanations have been furnished for the decreases in *Vizagapatam* and the *Nilgiris*. The decrease in the remaining districts mentioned *supra*, was due to causes already explained under collections. The increase in *Chingleput* and *Salem* was due to causes explained under collections; that in *North Arcot* to the sale of the stock of improvement fellings of the previous year at Naikaneri, and to a quantity of 87,923 cubic feet written off to profit and loss from the Mamundur depot. In *Trichinopoly* it was due to causes already explained under collections.

Under "bamboos" there was an increase principally in *South Malabar* and *North Coimbatore*, and a decrease in *South Arcot* and *South Coimbatore*. The increase was due to causes explained under collections. The small quantity disposed of in *South Arcot*, represents bamboos rejected by the Ordnance Department out of the supply made in 1896–97. The decrease in *South Coimbatore* was due to causes explained under collections.

The quantity of sandalwood disposed of, shows an increase mainly in the *Nilgiris* and *North Coimbatore*. In the *Nilgiris* there were fair offers, and consequently the whole quantity, including the collections of the past year, was disposed of. The increase in *North Coimbatore* has not been explained, but it was apparently due to a better demand.

Under "minor produce", the increase relates to avuru grass, and occurs mainly in *Vizagapatam*. It was due to the inclusion of about 50,000 maunds of grass written off from the previous stock.

As regards cost of collections, there was a slight decrease in the rate for timber, and an increase for fuel, sandalwood and minor produce. The decrease, in the case of

timber, was chiefly due to the rate of felling in the Tekadi leased forest (*South Coimbatore*) having been less than that in the previous year, and to the fact that out of 40,880 cubic feet trammed during the year, 17,618 cubic feet were trammed to the new workshop, the rate for which was 6 annas less per candy ($12\frac{1}{2}$ cubic feet) than to the upper depot. The low rate effected in the cost of collection in the *Nilgiri* district, also accounts for the decrease. The increase in the rate for "fuel" is slight, and calls for no remark. The increase under sandalwood, was principally due to extra charges incurred in *North Coimbatore* in bringing to head-quarters the stock of the previous year, as well as that of 1897–98. The increase under minor produce, was due to the collection of a larger quantity of products—such as gallnuts, tamarind, soap-nuts, cardamoms, elephant tusks, in *North* and *South Coimbatore*.

The average rate of sales shows an increase under timber and fuel, and a decrease under bamboos, sandalwood and minor produce. The increase under timber was due chiefly to sale of a larger quantity of better class timber in *Kurnool*, *South Malabar* and *North Coimbatore*, and to increased rates obtained for the sleeper logs in *Ganjám*, also better prices secured, from Mysore contractors, for timber in the *Nilgiris*. The increase under fuel is small and calls for no remark. The decrease under bamboos was due mainly to want of competition in *South Arcot*, *Salem* and *South Coimbatore*. In the first two-named districts, the bamboos sold were those rejected by the Ordnance Department. The decrease under minor produce, was due chiefly to the writing off the account of *Vizagapatam*, of a large quantity of avuru grass from the previous year's stock, and to the unfavourable season of the year.

41. The subjoined abstract shows the quantity and value of timber and other produce removed by purchasers, as compared with those of the preceding year:—

(FORM No. 72-A.)

ABSTRACT K.—Produce removed by purchasers.

	During 1896-97.			During 1897-98.		
	Quantity.	Amount of sales.	Average.	Quantity.	Amount of sales.	Average.
Northern Circle.	TONS.	RS.	RS. A. P.	TONS.	RS.	RS. A. P.
Timber .. .. .. C. ft.	1,078,313	1,08,811	0 1 7	967,369	1,08,203	0 1 9
Firewood .. .. .. ,,	2,425,998	55,510	0 0 4	2,077,816	47,746	0 0 4
Bamboos .. .. .. No.	15,905,473	69,664	0 0 1	12,264,891	61,930	0 0 1
Grass and grazing	..	1,23,939	..	..	1,10,463	..
Minor produce	..	1,58,319	..	..	2,46,345	..
Total ..	..	5,16,243	..	..	5,74,687	..
Central Circle.						
Timber .. .. .. C. ft.	811,280	89,956	0 1 9	778,857	92,589	0 1 11
Firewood .. .. .. ,,	3,859,689	1,30,828	0 0 7	4,059,078	1,56,964	0 0 7
Bamboos .. .. .. No.	12,442,370	91,468	0 0 1	12,303,451	98,693	0 0 2
Grass and grazing	..	1,78,438	..	..	1,76,968	..
Minor produce	..	2,19,072	..	..	2,13,738	..
Total ..	..	7,09,762	..	..	7,38,952	..
Southern Circle.						
Timber .. .. .. C. ft.	154,039	47,041	0 4 10	344,351	48,393	0 2 3
Firewood .. .. .. ,,	3,137,739	90,505	0 0 6	3,357,082	73,761	0 0 4
Bamboos .. .. .. No.	2,065,094	18,149	0 0 2	4,178,232	24,079	0 0 1
Grass and grazing	..	71,117	..	..	76,614	..
Minor produce	..	1,00,548	..	..	81,243	..
Total ..	..	3,27,360	..	..	3,04,090	..
Presidency Total. Timber .. .. C. ft.	2,043,632	2,45,808	0 1 11	2,090,577	2,49,185	0 1 11
Presidency Total. Firewood .. .. ,,	9,423,426	2,76,843	0 0 6	9,493,976	2,78,471	0 0 6
Presidency Total. Bamboos .. .. No.	30,412,937	1,79,281	0 0 1	28,746,574	1,84,702	0 0 1
Presidency Total. Grass and grazing ..	..	3,73,494	..	..	3,64,045	..
Presidency Total. Minor produce	..	4,77,939	..	..	5,41,326	..
Grand Total of Sales ..	..	15,53,365	..	..	16,17,729	..

The total value of sales in the year shows a net increase of Rs. 64,364, as compared with that of the previous year, as noted in the margin. The increase is distributed over all classes of produce, except grass and grazing. Under timber there was a noticeable increase in the districts of *Ganjám*, *Salem* and *Madura*, which was partly counterbalanced by a large decrease in *Cuddapah* and *Nellore*, due to bad season. In *Ganjám* it was due to demand for sâl sleepers for the East Coast Railway, and for the proposed Parlákimedi light railway. The crediting of a large amount of tree value on darkhast lands, and the payment of the second instalment by coffee planters, on account of lands leased out in the reserved forests on the Shevaroys, contributed towards the increase in the *Salem* district. The success of the Periyár irrigation, which has induced ryots to put in a larger number of darkhast applications in the Palamedu range, and the sales of coupes in Kanavaipatty range, were the main causes for the increase in *Madura*. The net increase under fuel was not large. Taking the districts individually, the increase was mainly spread over the districts of *Kurnool*, *Cuddapah*, *Chingleput*, *North* and *South Arcot*. In *Gódávari*, *North Coimbatore* and *Tinnevelly* there was a large decrease, which was somewhat counterbalanced by the large increase in the districts mentioned above. The increase in *Kurnool* was due to the sale of a large quantity of dead trees on darkhast lands. In *Cuddapah* more engine fuel was supplied during the year, and the price obtained for it was considerably higher than that obtained for fuel used locally. The sale of a larger number of coupes, and of trees in a casuarina tope, in the *Chingleput* district, accounted for the increase in that district. Extensive sales of coupes to contractors during the latter half of the year, for supply of fuel to railway, contributed to the increase in *North Arcot*. In *South Arcot* the increase was due to the sale of patches of old casuarina in Merkanam, and other places around Tindivanam. The large decrease in *Gódávari*, was due to small demand from Public Works Department, and to famine, but mainly to the lease amount of the compartment in Coringa reserve, for the year under review, having been credited in the accounts for the previous year. In *North Coimbatore* no explanation for the decrease has been furnished, while the explanation furnished for the decrease in *Tinnevelly* is not clear. The increase under bamboos occurred chiefly in *North Arcot*, but was counterbalanced to a certain extent, by decreases in *Gódávari*, *Salem* and *Trichinopoly*. In *North Arcot* the fifteen months' lease of the Amerdi tannah bamboos, was converted into a three years' and three months' lease, and the other leases were sold for fifteen months, from 1st April 1898 to 30th June 1899, instead of for twelve months as hitherto. The whole amount of the leases was shown as sales for the year. These changes in the leases contributed to the increase in the district. The decrease in *Gódávari* was due to large removals in the previous year, and to want of demand in the market at Rajahmundry during the year under review. The restrictions imposed on the felling of bamboos in the *Salem* district, accounted for the decrease in that district. In *Trichinopoly* the decrease was due to slack demand, and to restrictions imposed on the removal of bamboos from the Pachamalais. The decrease under "grass and grazing" is explained under grazing.

	Rs.
Timber	+ 3,377
Fuel	+ 1,628
Bamboos	+ 5,421
Grass and grazing	— 9,449
Minor produce	+ 63,387
Total ...	+ 64,364

The year, previous to that under report, was exceptionally poor for minor produce, and, as compared with it, there was therefore a large increase in the sales. The increase occurred chiefly in *Bellary*, *Anantapur*, *Chingleput*, *South Arcot* and *Trichinopoly*. The increase in *Bellary*, *Anantapur* and *South Arcot* has not been explained. In *Chingleput*, the increase was chiefly due to realizations by sale of shells in the Kurivithattoo reserved forest in the Ponnéri taluk, and of leaves, fruits, &c., of palmyra trees not tapped. The biennial and triennial leases for certain instalments in the *Trichinopoly* district fell during the year, and this accounts for the increase in that district. This increase was partly counteracted by large decreases in *Cuddapah*, *Salem* and *Tinnevelly*. The decrease in *Cuddapah* was due to drought, which continued during the first-half of the year. The tamarind and mango crops were poor, and the tanks were dry, with consequently no demand from the ryots for manure leaves.

The decrease in Salem was due to the collection, at the close of 1896–97, of certain contract amounts due for the year under report. The poor prices realized for babul pods and gum in Tinnevelly, accounted for the decrease in that district.

42. The following statement shows the comparative cost of departmental and private working, and the net profit derived under each system :—

Items.	Measure.	Quantity sold.	Amount of sale-proceeds.	Charges.			Net profit or loss.	Rate of net profit (column 8 ÷ column 3) per measure in column 2.
				A. Conservancy and works.	B. Establishment and contingencies.	Total.		
1	2	3	4	5	6	7	8	9
Departmental Working—			Rs.	Rs.	Rs.	Rs.	Rs.	Rs. A. P.
Timber	C. F.	413,996	2,29,669	59,062	65,656	1,24,718	+1,04,951	+0 4 1
Fuel	,,	2,265,967	1,73,419	1,01,118	1,12,407	2,13,525	— 40,106	—0 0 3
Bamboos	No.	260,314	9,223	4,751	5,281	10,032	— 809	—0 0 1
Sandalwood	C. F.	3,911	33,699	2,756	3,064	5,820	+ 27,879	+7 2 1
Minor produce	Mds.	71,821	32,291	16,563	18,412	34,975	— 2,684	—0 0 7
Private Working—								
Timber	C. F.	2,090,577	2,49,185	13,612	31,550	45,162	+2,04,023	+0 1 7
Fuel	,,	9,493,976	2,78,471	15,211	35,257	50,468	+2,28,003	+0 0 5
Bamboos	No.	28,746,574	1,84,702	10,089	23,385	33,474	+1,51,228	+0 0 1
Grazing	..	..	3,64,045	19,886	46,090	65,976	+2,98,069	..
Minor produce	..	..	5,41,326	29,570	68,538	98,108	+4,43,218	..

From the above, it will be seen that the profit under departmental working, in respect of timber, is much greater than that obtained for the same under removals by private agency. This is mainly due to the extraction of a superior quality of timber; to higher rates obtained for the sleeper logs in Ganjám; and to better prices paid by Mysore contractors for timber on the Nilgiris.

Under fuel, bamboos, and minor produce, departmental working has resulted in a loss, while private working showed a profit. The decrease of departmental net profit, was mainly due to the re-organization of the executive establishment, which raised the charges. Under fuel, of the quantity shown as sold, about 130,000 cubic feet were used departmentally, or written off as useless, and under minor produce, about 50,000 maunds of avuru grass were written off from previous year's stock in the Vizagapatam district. As regards bamboos, there was a want of sale competition, and many of the number sold were those rejected by the Ordnance Department.

As compared with the previous year, under departmental working, a better rate of profit was obtained for timber and sandalwood. The increased profit for timber has been explained above. Under sandalwood, the increase in the rate of profit was due to the fact that a much larger quantity was sold, as compared with the previous year.

Private working under timber and fuel shows an increase over the rate obtained in the previous year. This is due mainly to a better competition at coupe sales.

43. The sales of confiscated produce during the year under report, as compared with those of the previous year, are recorded in the subjoined abstract:—

(FORM No. 72-B.)

ABSTRACT L.—Confiscation.

—	During 1896–97.			During 1897–98.		
	Quantity.	Value.	Average.	Quantity.	Value.	Average.
Northern Circle.		RS.	RS. A. P.		RS.	RS. A. P.
Timber .. .. C. ft.	49,917	5,741	0 1 11	38,334	3,172	0 1 4
Firewood .. .. .. „	16,241	380	0 0 4	53,454	927	0 0 3
Bamboos .. .. No.	17,960	187	0 0 2	74,237	681	0 0 2
Minor produce .. Money value.	..	648	..	..	200	..
Total ..	..	6,956	..	..	4,980	..
Central Circle.						
Timber .. .. C. ft.	7,024	976	0 2 3	7,629	3,208	0 6 9
Firewood .. .. .. „	8,239	659	0 1 3	7,967	731	0 1 6
Bamboos .. .. No.	4,100	64	0 0 3	5,107	123	0 0 5
Minor produce .. Money value.	..	97	..	..	167	..
Total ..	..	1,796	..	..	4,229	..
Southern Circle.						
Timber .. .. C. ft.	7,062	2,272	0 5 2	6,391	1,670	0 4 2
Firewood .. .. .. „	19,465	613	0 0 6	17,805	752	0 0 8
Bamboos .. .. No.	2,260	38	0 0 3	7,506	92	0 0 2
Minor produce .. Money value.	..	275	..	..	94	..
Total ..	..	3,198	..	..	2,608	..
Presidency Total.						
Timber .. .. C. ft.	64,003	8,989	0 2 3	52,354	8,050	0 2 5
Firewood .. .. .. „	43,945	1,652	0 0 7	79,226	2,410	0 1 0
Bamboos .. .. No.	24,320	289	0 0 2	86,850	896	0 0 2
Minor produce .. Money value.	..	1,020	..	..	461	..
Grand Total ..	..	11,950	..	..	11,817	..

The total amount of sales shows a slight decrease of about Rs. 130, which calls for no remark. It is noted that a large amount was realized in Cuddapah, by the high prices realized from the sale of red sanders timber seized and confiscated in Cuddapah and Pullampet ranges.

44. The following abstract statement shows the quantity and value of produce removed under rights or free grants:—

—	Timber.		Fuel.		Bamboos.		Minor produce.	Grazing.	Total value.
	Cubic feet.	Value.	Cubic feet.	Value.	Number.	Value.	Value.	Value.	
By Right-holders.		RS.		RS.		RS.	RS.	RS.	RS.
Northern Circle	1,311	94	257,510	4,828	20,489	128	38,450	700	44,200
Central Circle	..	..	..	..	..	..	..	356	356
Southern Circle	500	37	75	4	825	2	290	615	948
Total ..	1,811	131	257,585	4,832	21,314	130	38,740	1,671	45,504
By Free-grantees.									
Northern Circle	27,741	2,154	888	36	32,910	169	1,066	357	3,782
Central Circle	28,620	3,413	400	25	1,55,071	486	105	..	4,029
Southern Circle	6,291	909	3,880	61	15,592	217	301	..	1,488
Total ..	62,652	6,476	5,168	122	2,03,573	872	1,472	357	9,299

There were many fires in several districts, as drought continued during the year. In the *Trichinopoly* district, some houses were destroyed by Coleroon floods in the Udaiyárpálaiyam taluk. In its review on the administration report for 1896–97, the Government of India desired that the value of grazing, admitted free on account of distress caused by drought, should be noted in the reports for future years. The Government of India Resolution was received too late to obtain the information for embodiment in the present report. It is observed that in *Cuddapah* free grazing was allowed for five months in the year, but its value cannot be estimated. In *North Arcot*, free removal of fodder grass was allowed during drought in the reserves north of the Palar river. No produce was granted on free permit in the districts of *Chingleput* and *Tanjore*.

CHAPTER IV.

45. The subjoined table shows the financial results of the] year, compared with those of 1896–97. The results show a decrease of Rs. 38,415 in the net revenue:—

Forest year.	Circle.	Revenue.	Expenditure.			Net results.
			A. "Conservancy and works."	B. "Establishments."	Total.	
		RS.	RS.	RS.	RS.	RS.
1896–97	Northern	5,97,422	2,42,025	2,23,255	4,65,280	+ 1,32,142
	Central	9,48,547	3,06,570	2,78,212	5,84,782	+ 3,63,765
	Southern	6,42,948	2,79,605	2,58,210	5,37,815	+ 1,05,133
	Total	21,86,917	8,28,200	7,59,677	15,87,877	+ 6,01,040
1897–98	Northern	5,99,670	2,06,027	2,61,999	4,68,026	+ 1,31,644
	Central	8,88,834	2,78,206	2,78,281	5,56,487	+ 3,32,347
	Southern	6,62,610	2,84,977	2,78,999	5,63,976	+ 98,634
	Total	21,51,114	7,69,210	8,19,279	15,88,489	+ 5,62,625

The receipts of the year, compared with that of the previous year, fell by Rupees 37,803, and the variations are explained below:—

Departmental working.

Timber + Rs. 52,784. Due mainly to sale of the previous year's stock in *North* and *South Malabar*; to brisker demand for timber in the former district and in *Ganjám*, and to better prices secured in the *Nilgiri* district from Mysore contractors.

Fuel — Rs. 14,660. Due mainly to a smaller supply of engine fuel to the South Indian Railway in *South Arcot*, and to the prevalence of fever on the *Nellore* coast, whereby coolies were difficult to obtain.

Bamboos — Rs. 863. Needs no explanation.

Sandalwood + Rs. 17,979. Due principally to sale of the previous year's stock in the *Nilgiris* and *North Coimbatore*.

Minor produce — Rs. 2,546. Requires no explanation.

Removals by purchasers.

Timber — Rs. 420. Requires no explanation.

Fuel — Rs. 18,024. Due generally to prevalence of scarcity in several districts, and to the unusually large revenue realized in 1896–97 in certain districts, notably *North Arcot*, *Trichinopoly*, *Tanjore* and *North Coimbatore*.

Bamboos — Rs. 20,184. Absence of demand for bamboos in *Gódávari*, and to the restrictions imposed on the felling of bamboos in *Salem* and *Trichinopoly*.

Grazing — Rs. 12,449. *Vide* explanation under grazing.

Other produce — Rs. 17,460. Ascribed to the failure to realize the revenue from sales of tangedu bark in *Bellary*, *Kurnool* and *Nellore*, and also to the bad season generally.

Confiscated wood and miscellaneous revenue — Rs. 21,960. The large amounts realized from lands opened out for coffee cultivation in the Anamalais in *South Coimbatore*, during the year previous, is accountable for the deficiency this year.

The total expenditure under A. "Conservancy and Works" was less than that of the previous year by Rs. 58,990. The decrease occurred mainly under I, II, VII and IX. The short expenditure under I, was due to restricted collection of redwood roots in *Cuddapah*, to the substitution of private working, and to the curtailment of felling in *Madura*. In *Cuddapah* and *South Arcot*, the supply of engine fuel was restricted. In *Nellore*, labour could not be procured, owing to prevalence of fever in coast villages. On the *Nilgiris*, felling operations were curtailed, as there was an

absence of demand for firewood. The fall under II was due mainly to reductions in the temporary establishment, owing to the augmentation of the permanent establishment. Under VII the decrease occurred chiefly in *North* and *South Coimbatore*, and *Nellore*. In the two first-named districts, the decrease occurred under roads, and in the last-named district under buildings. The decrease under IX was due to the large refunds in the Northern Circle in the previous year. The cost of establishment increased by Rs. 59,602, due mainly to the reorganization of the executive establishment.

The following districts contributed chiefly to the net *surplus*: *Salem* over 24 per cent., *Bellary* 10, *North Arcot* and *South Malabar* 9 each, and *Anantapur* 8.

CHAPTER V.—IMPORTANT ADMINISTRATIVE CHANGES.

46. *Realization of Revenue from the Usufruct of Toddy-yielding trees in the Reserved Forests and Government Waste and Poramboke Lands.*—In *Ganjám* the revenue under this head was small, and it is reported that in the Berhampur and Chicacole taluks, zemindars and other proprietors charge less than the Government rates. The realizations under the new system were not as satisfactory as they were under the old system in *Anantapur*, the revenue realized being Rs. 11,550 against Rs. 29,553 in the previous year. In *North Arcot*, fixed fees were levied on only a few trees in the reserved forests, and the introduction of the system has been, it is reported, postponed to 1899–1900. In *Madura* there are scarcely any toddy-yielding trees in reserved forests. There were no bidders for the right of tapping the trees on Government waste and poramboke. The reports from other districts contain little information as to the effect of the system on the revenues from this source.

47. *Working of the Department—Improvement of the Forest Growth, and the Wants of the People.*—Collectors have been requested to give effect to the instructions of Government in the matter of encouraging the growth of manure leaf-yielding trees and shrubs, and the measures adopted will be noted in the annual reports for the current and future years. It is reported that in *Gódávari* no leaf is used at all for manure, and the ryots are not accustomed to use it, as the lands are naturally fertile. The irrigated lands in *North Coimbatore* are distant from the forest areas, and no arrangement appears to be necessary in the matter of the supply of manure leaves in the district. In *Kurnool*, depots were opened at Atmakur, Yernipad and Rudravaram, but the prices, based on seigniorage rates *plus* the cost of extraction and carriage, are reported to be too high for all classes, except the timber traders and the more wealthy people. The subject of opening depots, within reach of easy lines of transport, and near villages, is under the consideration of the Collector. The system of selling babul pods in *Bellary* directly to the goat herds, at a price fixed by the District Forest-officer, was extended to the whole of the district except Hospet taluk, as complaints were received that the lessees demanded excessive fees from the graziers. In *Anantapur* the requirements of the people were kept in view in working the forests, and the rates charged were similar to those prescribed for the various classes of timber and minor produce from unreserved areas. In *Chingleput* the growth in unreserved lands was found insufficient to meet the wants of the people, and coupes in reserves were opened for the purpose. Additional permit-issuing stations were also opened, in order to enable the people to obtain permits for forest produce, without having to travel long distances. In *North Arcot* coupes to an extent of 5,010 acres were leased out in different parts of the district, and were supplemented by issue of permits for timber and fuel, on payment of seigniorage wherever necessary. The opening of a few more fuel depots in Salem is under consideration, and the leaves of III-class trees were allowed to be removed on permits and on leases for manure. The required information on the improvement of standing growth, and efforts to aid it, are given in paragraphs 27 and 28 of chapter II.

48. *Rules under the Forest Act.*—The Timber Transit Rules in Ganjám have had a good effect on the revenue, but are reported to have led to forest offences in the shape of forging Government hammer marks. The Vizianagram estate forest rules

gave no trouble, and proved suitable, while those sanctioned for the Jeypore estate were found not altogether suited to the circumstances of the country. A revised set of draft rules have since been submitted to Government for approval. The rules under sections 35 and 36 for the Kurnool district worked satisfactorily, and the North Coimbatore Sandalwood Transit Rules have had the effect of checking, though not absolutely stopping, the illicit trade in the wood. The rules sanctioned for the Saptur estate forests remained practically inoperative, as the blocks to be constituted reserved lands, have not yet been selected. The District Forest-officer reports that the forests are poor, containing practically no timber of any size or value, and that if they are in any way to be improved, the privileges must at any rate be curtailed; but the rules sanctioned by Government permit of no interference with existing privileges. Timber Transit Rules, under sections 35 and 36 of the Forest Act, were sanctioned during the year, for the districts of Vizagapatam, Cuddapah, South Canara, Kistna and Gódávari. Those for Malabar have since been published, and for Tinnevelly await the sanction of Government. Revised Drift Timber Rules for Gódávari were also approved by Government, as well as rules regulating the rights of Chenchus in the Nallamalai forests in Kurnool. The Forest Manual, which awaited the approval of Government at the close of the previous year, was issued during the year.

49. *Working of the Rules under Section 26 of the Forest Act.*—The concession allowed under Rule 7 of the rules under section 26, was availed of by the people generally in all the districts, and there was no abuse of the privileges worth mentioning. Some difficulty was felt in working the rule in Chingleput and North Coimbatore, due to the removal of produce for sale, under pretext of using it for domestic purposes. As regards the complaints of the ryots in Vizagapatam, alluded to in the report for the previous year, it is noted that certain species have been excluded from class III, in dealing with unreserved lands. Collectors have now been requested to submit, for the Board's approval, separate lists of selected trees for each range, taluk or other convenient local area, containing only the names of those valuable timbers or fruit trees which are to be found in considerable numbers on the unreserved lands of the areas in question, and these lists will be widely published locally, as the lists of the reserved and classified trees within the meaning of Rule 7, in so far as that particular locality is concerned. In this connection, the attention of Collectors has also been drawn to Dr. Brandis' opinion, that special protection can only be effectual and practically useful, if the number of protected trees is limited to a few which can be easily recognized and identified. These measures will, it is believed, remedy the objection which is made from time to time, that the concession of free felling is more nominal than real.

50. *Coffee cultivation in Reserved Forests.*—On the Shevaroys in the Salem district no fresh applications were entertained during the year, but a sum of Rs. 4,249 was realised on account of the value of tree growth on the lands already leased out. The question of opening the Yelagiris and Kollimalais to coffee cultivation is still under consideration. In North Coimbatore, the Board has approved of the proposal to throw open the Minchiguli valley, on terms similar to those under which leases are to be granted on the Anamalais, and the proposals are awaiting the sanction of Government. In South Coimbatore, the leases of lands on the Anamalais have not yet been executed for any of the blocks already granted. Seventeen blocks aggregating 15,997 acres have been sold, and twelve blocks of 10,896 acres, for which applications were received, have not been sold, pending survey of the areas by a surveyor from the Survey of India Party. Government has since directed that no further applications need be entertained for some time, and that it will issue orders as regards the disposal of the pending applications.

51. *Tours of Forest Member.*—Mr. S. H. Wynne was the Forest Member of the Board of Revenue, from 3rd January to 5th April 1898, and the Hon'ble Mr. Sturrock for the rest of the year. In March 1898 Mr. Wynne proceeded to Coimbatore and the Nilgiris, and conferred with the District Forest-officers on matters of forest interest. Mr. Sturrock visited Salem in September 1897, and the Nilgiris and Coimbatore in May and June 1898.

52. *Conservators' Inspection.*—The names of Conservators who held charge of the three circles, the time spent by them in camp, and the names of the districts visited by them during the year, are shown in the following statement:—

Circle.	Names of Conservators.	Number of days in charge.	Number of days spent in camp.	Districts visited.	District Forest-offices inspected.
Northern	Mr. A. W. Peet	275	204	All districts ..	Ganjám.
	„ E. D. M. Hooper	90			Kurnool.
Central	„ E. P. Popert	261	200	All districts except Nellore.	All except Nellore, South Arcot and Salem.
	„ J. W. Cherry	104			
Southern	„ E. D. M. Hooper	76	228	All districts except South Canara and North Malabar.	....
	„ H. A. Gass	69			....
	„ J. W. Cherry	108			Madura.
	„ C. E. Brasier	112			Tinnevelly.

53. *Touring of District Forest-officers.*—All the District Forest-officers, except those of Vizagapatam, North Arcot and South Arcot, spent in camp more than half the year. In South Arcot Mr. Peake had to remain at head-quarters for a longer period than is ordinarily necessary, owing to the frequent changes which took place among the clerks of the District Forest-office.

54. *Inspection of Range offices by District Forest-officers.*—The ranges of all the districts, except Ganjám, Kurnool, North and South Arcot, South Malabar, North and South Coimbatore were inspected twice during the year. In the districts excepted, some of the Range offices were inspected only once.

55. *Audit of the Accounts of the District Forest-offices.*—The Local Fund inspecting staff of the Accountant-General's office audited, as usual, the accounts of all District Forest-offices, except Ganjám and South Arcot, and the results were, on the whole, fair.

56. *Forest School.*—One Deputy Ranger from the Central Circle, and three from the Northern Circle, were deputed to Dehra Dun for training. Two returned from the school to the Southern Circle with Ranger's certificate, and one to the Northern Circle.

57. *Conference of District Forest and Divisional Officers during Jamabandi.*—In Government Order, No. 569, Revenue, dated 13th July 1897, the Government defined certain principles to be observed in the administration of the forests of this Presidency. Collectors have now been directed to instruct their District Forest-officers and Divisional Officers, to arrange to meet, from time to time, when Jamabandi is being held, at a station in the neighbourhood of the forests, or at some other place, so that any petitions complaining of the working of the Forest Rules may conveniently be taken up jointly for investigation and disposal, referring for the orders of the Collector any points on which the officers concerned are unable to agree. The Collectors have also been directed to instruct the officers, during these Conferences, to make enquiries as to whether the forest administration is being carried on in the manner best adapted to meet local conditions; and whether satisfactory arrangements exist under which ryots can easily obtain wood for agricultural implements on payment, when none is available on unreserved lands; whether the periodical closure of grazing grounds is being carried out with as little inconvenience as possible; whether ryots are encouraged to cut and remove fodder from closed areas; whether forest prosecutions are instituted with discrimination; and whether it is possible to enlist the co-operation of the villagers in fire protection.

58. *Conduct and work of the Establishment.*—The conduct and work of the subordinate executive and protective staff is still not as good as is desirable. In the *Northern Circle*, one Forester in *Gódávari* was prosecuted for bribery, but the result of the case is yet not known. A supervisor was suspended in *Kistna*, and the services of another were dispensed with. A case of temporary misappropriation, by a license issuing

gumastah, was pending before the Deputy Magistrate of Narsapur. In *Kurnool*, one Ranger was suspended, one Deputy Ranger dismissed, and the services of a forester dispensed with. In *Cuddapah* in the *Central Circle*, one Deputy Ranger was dismissed, and another reduced. Two Foresters in *Nellore* were transferred from the district for bad work and misconduct. In *Chingleput*, one forester was suspended, and two permit issuing officers were dismissed. Two Foresters were dismissed in *South Arcot*. In *Salem*, a Ranger was reduced, and the services of another dispensed with on charges of cheating and disobedience of orders. A Forester in *Trichinopoly* was criminally prosecuted before the Deputy Magistrate of Musiri, and sentenced to four months' imprisonment, for embezzlement of Government money and illegal gratification. In the Southern Circle, a Deputy Ranger was suspended in *North Coimbatore* for overstaying his leave, and a Forester removed from the service. In *South Coimbatore*, a Ranger was reduced to the bottom of his grade, and in *Madura*, another was suspended. In *Tinnevelly*, a Forester was suspended for eight months, for conniving at illicit fellings by a contractor.

There were several dismissals and suspensions amongst the forest guards and watchers, for misconduct, and gross neglect of duty. In North Malabar, two guards were convicted, one for extortion, and the other for conniving at a house-breaking case.

59. *Health of the establishment.*—In the Northern Circle, *Ganjám* and *Gódávari* continued to be unhealthy, and no officer escaped fever during the year. In the first-mentioned district one draughtsman died of cholera, and a temporary Surveyor of pneumonia. In the latter district, one tannadar, two forest guards, and one permit gumastah, died of fever. *Vizagapatam* and *Kurnool* continued also to be unhealthy. The establishment suffered much from fever, and a guard in *Kurnool* died. There was a great deal of cholera in *Anantapur*, but the health of the establishment generally remained good. In the Central Circle, the subordinates of the *Cuddápah* taluk suffered considerably from fever. The health of the establishment was bad in *Nellore*, (guinea worm and fever being the most frequent complaints), and far from good in *North Arcot*, *South Arcot*, *Madura*, *the Nilgiris*, *South Malabar*, *and South Coimbatore*.

60. *Service books.*—In all the districts, except *North Arcot*, *South Arcot* and *Madura*, service books are reported to have been maintained, and verified up to the close of the year under report.

61. *Inventory of valuable Stock.*—Stock registers are reported to have been kept and verified in all districts.

62. *Elephants.*—Ten elephants were captured during the year, seven in *North Malabar*, one in *South Malabar*, and two in *South Coimbatore*, of which the two captures in the last-mentioned district died. Thirteen elephants were sold during the year, of which two were from the fresh captures in *North Malabar*. One was transferred to the Police department, and two to the Agent to the Governor, Gódávari. Another elephant was transferred temporarily to the Public Works department. The number of animals borne at the close of the year on the strength of the Forest department, was 52, as per Form No. 63, against 62 in the previous year.

63. *Rain-gauges.*—As usual, rain-gauge readings are reported to have been properly recorded in all the districts, except *Ganjam* and *Anantapur* in the *Northern Circle*; *Nellore*, *Chingleput*, *Trichinopoly* and *Tanjore* in the *Central Circle*; and *South Canara* and the *Nilgiris* in the *Southern Circle*. Two, out of the six rain-gauges in *Kistna*, were out of order for the greater part of the year.

64. *Iron industry in the Salem District.*—The question of the cost of charcoal for iron smelting in the Salem District, and the annual supply of charcoal available, was considered during the year. Test experiments were made at Middlesborough with Bengal coal and Salem ore, and the results, as communicated in the Right Honourable the Secretary of State's despatch since received, show that the coal is difficult to coke; that the coke when made is unsuitable for blast furnace work; that the sample of Salem iron-ore contained only 40 per cent. of magnetic iron; that the ore is too poor and too siliceous to be worth exporting; and that it is unsuitable for smelting in a blast furnace. Major Mahon, Superintendent of Foundry and Shell Factory Company, Cassipore, has however since been requested to favour the Board with any remarks he

may wish to offer on these results. His attention has also been drawn to the fact that one of the recent applicants for a prospecting license for Kanjamalai, has remarked, that magnetic beds notoriously vary both as to grade and to quality, and that it is therefore possible that a different verdict might have been obtained as regards the ore, if the specimens had been selected by a mining expert. Much better analyses were obtained from other specimens, and plenty of good ore was obtained by the old East India Iron Company.

65. *Work and Services of Superior Officers—Northern Circle*—The zeal and energy of Mr. A. W. Lushington, Deputy Conservator of Forests, and of Mr. Nallaswami Naidu, Extra Assistant Conservator in the Kistna district; the sound work of Mr. Lodge; the energy of Mr. Hearsey in inspecting the forests in his subdivision; and the good selection work of Mr. Fischer, in the Kurnool district; have been acknowledged by the Collectors of Kistna and Kurnool. The reports from the other districts make no mention of the work of the District Forest-officers, or their Assistants.

Central Circle.—The Acting Conservator Mr. Cherry writes: "From what Mr. Popert told me, and from my observations during the short time I have been in charge, all the District Forest-officers of the Circle continue to use their best endeavours, and to give satisfaction."

Southern Circle.—The Acting Conservator remarks: "No Collector has stated his opinion of his District Forest-officer's administration, but the annual reports show that all District Forest-officers have worked well and energetically."

APPENDICES.

Annual Form No. 44.

Forest Department, Madras Presidency.

Area of reserved forests and reserved lands, 1897–98.

District.	Area of reserved forests.						Area of reserved lands.						Total area of reserved forest and reserved lands on 30th June 1898 in square miles.
	Area on 1st July 1897.		Added during the year.	Excluded during the year.	Area on 30th June 1898.		Area on 1st July 1897.		Added during the year.	Excluded or transferred to other heads.	Area on 30th June 1898.		
	Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.	Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.	
Northern Circle.													
Ganjám	93,517	146	62,969	..	156,486	245	262,532	410	7,170	66,352	203,350	318	563
Vizagapatam	87,139	136	561	..	87,700	137	178,484	279	422	2,460	176,446	276	413
Gódávari	518,459	810	23,070	1,055	540,474	844	91,200	143	13,806	24,600	80,406	126	970
Kistna	418,708	654	33,648	796	451,560	706	326,187	510	8,504	42,731	291,960	456	1,162
Kurnool	1,155,960	1,806	99,942	..	1,255,902	1,962	335,807	525	225,675	108,327	453,155	708	2,670
Bellary	291,458	456	11,911	10,141	293,228	458	108,832	170	2,967	11,333	100,466	157	615
Anantapur	279,526	437	8,125	..	287,651	450	49,542	77	..	9,372	40,170	62	512
Total ..	2,844,767	4,445	240,226	11,992	3,073,001	4,802	1,352,584	2,114	258,544	265,175	1,345,953	2,103	6,905
Central Circle.													
Cuddapah	1,009,024	1,576	47,526	..	1,056,550	1,651	501,665	784	40,466	62,798	479,333	749	2,400
Nellore	343,411	537	11,105	..	354,516	554	93,556	146	..	12,589	80,967	126	680
Chingleput	129,749	203	4,924	5,942	128,731	201	6,137	10	8,006	5,257	8,886	14	215
North Arcot	653,346	1,021	16,998	..	670,344	1,047	72,434	113	564	20,678	52,320	82	1,129
South Arcot	366,850	573	65,713	..	432,563	676	90,796	142	..	68,543	22,253	35	711
Salem	786,488	1,229	..	1,697	784,791	1,226	134,618	210	..	26,144	108,474	170	1,396
Trichinopoly	121,217	189	1,655	21	122,851	192	69,356	108	..	14,093	55,263	86	278
Tanjore	11,419	18	100	..	11,519	18	100	..	..	100	..	..	18
Total ..	3,421,504	5,346	148,021	7,660	3,561,865	5,565	968,662	1,513	49,036	210,202	807,496	1,262	6,827
Southern Circle.													
South Canara	72,790	114	33,581	..	106,371	166	636,630	995	..	24,336	612,294	957	1,123
Malabar, North	100,722	157	129	..	100,851	157	75,107	117	..	129	74,978	117	274
Do. South	25,227	39	189	..	25,416	40	184,920	289	..	189	184,731	288	328
The Nilgiris	228,874	358	179	91	228,962	358	59,134	92	21,851	893	80,092	125	483
Coimbatore, North	673,898	1,053	2,607	2,123	674,382	1,054	365,046	570	..	3,689	361,357	565	1,619
Do. South	418,292	654	..	..	418,292	654	1,982	3	..	..	1,982	3	657
Madura	359,808	562	9,585	6,312	363,081	567	37,660	59	5,424	13,261	29,823	46	613
Tinnevelly	262,559	410	1,451	36	263,974	412	10,488	17	607	3,590	7,505	12	424
Total ..	2,142,170	3,347	47,721	8,562	2,181,329	3,408	1,370,967	2,142	27,882	46,087	1,352,762	2,113	5,521
Grand Total ..	8,408,441	13,138	435,968	28,214	8,816,195	13,775	3,692,213	5,769	335,462	521,464	3,506,211	5,478	19,253

FORM

Forest

STATEMENT showing the Progress made in, and the Expenditure

Name of forest district.	Area already settled at commencement of year.	Areas finally settled during the year.					
		Number and date of Government Order according final sanction to the settlement.	Name of forest settled.	Area.	Expenditure incurred during the year on areas finally settled.		Entire cost per square mile of areas finally settled during the year.
					In forest accounts.	In other accounts.	
1	2	3	4	5	6	7	8
							Northern
	SQ. MLS.			SQ. MLS.	RS.	RS.	RS. A. P.
Ganjam ..	146	No. 727, dated 27th August 1897.	Deppaguda	2	..	..	..
		No. 748, dated 3rd September 1897.	Kuddapada	2	..	..	..
		No. 921, dated 8th November 1897.	Kuricholi	9	..	..	..
		No. 922, dated 8th November 1897.	Hukuma	7	..	..	..
		No. 176, dated 24th March 1898.	Pippaliponka	13	..	..	..
		No. 221, dated 23rd April 1898.	Brahmanasayi	13	..	..	..
		No. 236, dated 27th April 1898.	Baiballi	44	..	..	..
		No. 80, dated 10th February 1898.	Mundapetta	9	..	..	..
		No. 504, dated 29th June 1897.	Napier's park	*	..	..	..
			Total ..	99	..	..	..
Vizagapatam.	136	No. 6, dated 4th January 1898.	Barnakonda extension block No. 29.	1	..	..	..
		No. 5, Rev., dated 4th January 1898.	Boddapalem				
		No. 6, dated 4th January 1898.	Kadagandi extension block No. 32.				
		No. 293, Rev., dated 20th May 1898.	Antikonda extension block No. 30, I and II.				
		No. 292, dated 20th May 1898.	Arlova extension No. 4 ..				
		Do.	Do. ,, 5 ..				
		No. 290, dated 20th May 1898.	Do. ,, 2 ..	† 1	..	..	..
		Do.	Pedimikonda extension ..				
		No. 280, Rev., dated 18th May 1898.	Sinivaram extension ..				
		No. 355, Rev., dated 3rd June 1898.	Kadagandi reserve extension ..				
			Total ..	2	..	..	..
Gódávari ..	810 (a)—2	No. 1064, Rev., dated 17th December 1897	Beddadavole	23	..	..	..
		No. 184, Rev., dated 28th March 1898.	Kandikuppa	13	..	..	..
		No. 353, Rev., dated 23rd June 1898.†	Marlagudam	3	..	..	..
			Total ..	39	..	..	..
Kistna ..	663	No. 499, dated 28th June 1897.	Bandar Fort extension No. 1 ..	1			
		No. 707, dated 20th August 1897.	Amudalapalli	2			
		No. 747, dated 3rd September 1897.	Bollapalli extension No. 3 ..	4			
		No. 756, dated 4th September 1897.	Veldurti	6			
		No. 855, dated 7th October 1897.	Guttikonda extension No. 7 ..	3			
		No. 870, dated 12th October 1897.	Potumerakaparra	9			
		No. 871, dated 12th October 1897.	Kandipad				

(a) Rectification of area. * Below one square mile. † Reservation takes effect from 1898-99.

No. 45.

Department.

incurred on, Forest Settlements during 1897–98.

Areas undergoing settlement.						
At commencement of the year.		Taken in hand during the year.		Expenditure incurred during the year on areas undergoing settlement.		Estimate of areas in which settlement operations have not yet commenced.
Name of tract.	Area.	Name of tract.	Area.	In forest accounts.	In other accounts.	
9	10	11	12	13	14	15
Circle.						
	SQ. MLS.		SQ. MLS.	RS.	RS.	SQ. MLS.
Teliki	24	....	..			
Darpangia	25	....	..			
Gullery	37	....	..			
Ambozora	50	....	..			
Gundribadi and extensions ..	34	....	..			
Gogodo	24	....	..			
Paichalia	22	....	..			
Kriamba	36	....	..			
Rogada	25	....	..	2,485	..	85
Dougam	4	....	..			
Raipada	11	....	..			
Chatrapuram	1	....	..			
Podara	1	....	..			
Rankuhanumanthapuram ..	2	....	..			
Bainamari	6	....	..			
South Mohiri	6	....	..			
Ramagodo	10	....	..			
Total ..	318		..	2,485	..	
Kadagandi	166	Arlova extension No. 42 I-A.	8	1,914	..	101
Dharakonda		Do. ,, 42 I-B.				
Bointie		Karaka extension ,, 41 II-A.				
Bharnakonda inclusive of Molalanka and Gadilavalasa.		Do. ,, 41 II-B.				
		Do. ,, 40, I ..				
		Pedimikonda extension No. 1.				
		Chinnagora extension No. 1 ..				
		Do. ,, 2 ..				
		Do. ,, 3 ..				
		Do. ,, 4 ..				
		Do. ,, 5 ..				
Total ..	166		8	1,914	..	
Jilugumilli	5	Singampalli	22	‡ 2,485	..	93
Dharbhagudem	3	Ultimathule				
Kopalli	30	Rajahvommangi				
Kovada	30					
Papikonda	33					
Total ..	101		22	2,485	..	
Nizampatam	10	Vedullapalli extension No. 2 ..	1			
Nayanapalli extension No. 1..	4	Ipurupalem	9			
Kothur extension No. 4 ..		Chirala				
Gollapudi		Balusapad	4			
Budavada extension No. 1 ..	3	Jaggiapet extension No. 5 ..	2			
Do. ,, 2 ..		Do. ,, 6 ..				
Do. ,, 3 ..		Do. ,, 7 ..				
Matsavaram	5	Gondrayi	8			
Vemavaram		Kuragalla extension No. 1 ..				
Bollapalli extension No. 1 ..		Kandipad do. ,, 1 ..				
Vinukonda	21	Tangeda do. ,, 1 ..				
Yellamanda block No. II ..		Do. do. ,, 2 ..				
Muppala		Madinapad do. ,, 1 ..				
Bollapalli extension No. 7 ..	12	Do. do. ,, 2 ..				
Kakirala ,, No 7. ..						

‡ Represents the expenditure incurred by the Forest Settlement-officer and proportionately debited by him to this district.

Statement showing the Progress made in, and the Expenditure

Name of forest district.	Area already settled at commencement of year.	Areas finally settled during the year.					
		Number and date of Government Order according final sanction to the settlement.	Name of forest settled.	Area.	Expenditure incurred during the year on areas finally settled.		Entire cost per square mile of areas finally settled during the year.
					In forest accounts.	In other accounts.	
1	2	3	4	5	6	7	8
							Northern
Kistna—*cont.*	SQ. MLS.			SQ. MLS.	RS.	RS.	RS. A. P.
	..	No. 886, dated 23rd October 1897.	Narasayapalem extension No. 1	1			
		Do.	Do. ,, 2.				
		No. 923, dated 8th November 1897.	Bandar Fort extension No. 2..	2	2,395	..	..
		No. 946, dated 13th November 1897.	Adavuladeviparra	3			
		No. 966, dated 16th November 1897.	Takkellapad				
		No. 147, dated 10th March 1898.	Kamepalli	3			
		No. 146, dated 10th March 1898.	Janapad	5			
		No. 230, dated 25th April 1898.	Gopuvanipalem extension No. 2.	4			
		No. 630, dated 26th July 1897.	Pasvemula extension No. 4 ..				
		No. 346, dated 16th June 1898.*	Venkatayapalem extension No. 3.	4			
		No. 291, dated 20th May 1898.*	Venkatayapalem extension No. 6.				
		No. 298, dated 23rd May 1898.*	Bollapalli extension No. 8 ..	2			
		No. 337, dated 7th June 1898.*	Bápatla block No. 3	1			
			Total ..	50	2,395	..	47 14 5
Kurnool ..	1,811	No. 601, dated 20th July 1897.	Somidevipalle	18	..	10	..
		No. 619, dated 24th July 1897.	Tokapalle	2	..	8	..
		No. 641, dated 27th July 1897.	Pyalakurti	1	..	8	..
		No. 665, dated 2nd August 1897.	Ambavaram	16	..	12	..
		No. 995, dated 29th November 1897.	Jaladurgam	28	10	20	..
		No 996, dated 29th November 1897.	Tambalapalle	3	..	20	..
		No. 1053, dated 15th December 1897.	Uyyalavada addition	31	149	23	..
		No. 1067, dated 17th December 1897.	North Dhone	22	..	20	..
		No. 10, dated 5th January 1898.	Millampalli	5	60	23	..
		No. 104, dated 19th February 1898.	Sirvel addition No. 2 ..	25	55	25	..
			Total ..	151	274	169	2 14 11
			Expenditure incurred on reserves notified in previous year.	..	12	5	..
			Grand Total ..	..	286	174	..
Bellary ..	456 (*a*)—13	No. 726, dated 27th August 1897.	Neraniki	15	..	..	..
			Total ..	15	..	..	..

(*a*) Rectification of area.

* Reservation takes effect from 1898-99.

incurred on, Forest Settlements during 1897–98—*cont.*

Areas undergoing settlement.				Expenditure incurred during the year on areas undergoing settlement.		Estimate of areas in which settlement operations have not yet commenced.
At commencement of the year.		Taken in hand during the year.				
Name of tract.	Area.	Name of tract.	Area.	In forest accounts.	In other accounts.	
9	10	11	12	13	14	15

Circle—cont.

	SQ. MLS.		SQ. MLS.	RS.	RS.	SQ. MLS.
Gangalakunta additions Nos. 1, 2 and 3.	2	Sitaramapuram	8	4,108	..	272
Darvemula extension No. 1 ..		Pamidipad				
Pasvemula do. ,, 5 ..		Mekapad				
Goli	8	Kopparam block No. 1 ..	10			
Tumurucodu extension No. 4..	5	Mukteswaram				
Do. ,, 5..		Koppukonda extension No. 1..	11			
Nizampatam extension No. 1..		Mutukur do. ,, 5..				
Pullaripalam		Rekulagadda				
Guttikonda extension No. 9 ..	10	Kandlagunta extension No. 1.	32			
Gadimetla		Madugula				
Tumurucodu extension No. 2..		Gamalapad				
Perallavalapalem		Gangulakunta extension No. 1.	8			
Muthayapalem extension No. 1.	6	Rentachintala				
		Paluvayi..				
		Pasvemula extension No 9 ..				
		Bollapalli extension No. 9 ..	1			
Total ..	86		94	..	..	
Sirvel addition No. 3	18	....	..	..	31	
Velugode	69	....	..	..	622	
Maduva	1	....	..	56	31	
Betamcherla	15	....	..	119	31	
Nandyal addition No. I ..	11	....	..	88	31	
Do. No. II ..	20	....	..	40	31	
Veludurti	2	....	..	..	31	
Guvvalagunta	27	....	..	..	621	
Eastern Nallamalai block No. I of Cumbum.	20	....	..	..	621	
Do. No. II.	33	....	..	..	621	282
Duddyala	6	....	..	..	31	
....	..	Eastern Nallamalai block No. III of Cumbum.	50	..	31	
		Loddipalli	4	..	13	
		Panem	47	..	10	
		Alamur			10	
		Gani	88	..	10	
		Giddalur block No. I	11	..	2	
		Do. No.II	11	..	2	
Total ..	222		211	303	2,780	
Molagavalli	2	Jittinakatti north-east ..	1	..	..	
Kodalu	2	Kadaluru	2	..	..	
Ubbalagandi extension ..	3	Kalluru, east	1	..	..	
Marutla	5	....	..	..	..	
Kosigi	1	....	..	..	..	
Bellahumshi	2	....	..	28	223	
Hampasagaram	2	....	..	..	..	360
Basarakodu	2	....	..	..	..	
Bachigondanahalli	3	....	..	..	..	
Chintalapalli, north	2	....	..	..	..	
Do. south	2	....	..	..	..	
Koyilargatti extension ..	1	....	..	..	..	
Kalluru, west	2	....	..	..	..	
Jittinakatti south-east ..	2	....	..	..	..	
Total ..	31		4	28	223	

Statement showing the Progress made in, and the Expenditure

Name of forest district.	Area already settled at commencement of year.	Areas finally settled during the year.					
		Number and date of Government Order according final sanction to the settlement.	Name of forest settled.	Area.	Expenditure incurred during the year on areas finally settled.		Entire cost per square mile of areas finally settled during the year.
					In forest accounts.	In other accounts.	
1	2	3	4	5	6	7	8
							Northern
	SQ. MLS.			SQ. MLS.	RS.	RS.	RS. A. P.
Anantapur.	437	No. 32, dated 17th January 1898.	Golla	11	..	..	..
		No. 31, dated 17th January 1898.	Iyampalli	2	..	..	..
		No. 281, dated 18th May 1898.*	Kalagira	8	..	..	..
		No. 331, dated 3rd June 1898.*	Durgam extension				
			Total ..	21	..	..	..
							Central
Cuddapah ..	1,578 + 1	No. 426, dated 7th September 1897.	Chennupalle	6	..	..	..
		No. 58, dated 28th January 1898.	Sancherla extension	8	..	..	..
		No. 34, dated 10th January 1898.	Kottakota Dasaripalli extension.	33	..	..	..
		No. 533, dated 12th November 1897.	Yerrappakonda	5	..	..	..
		No. 521, dated 3rd November 1897.	Horsleykonda extension ..	10	..	..	..
		No. 320, dated 5th July 1897.	Gundlur	3	..	..	..
		No. 343, dated 20th July 1897	Marripad	7	..	..	..
		No. 269, dated 27th May 1898. *	Palakondas	137	..	..	..
		Do. *	Wongimalla	18	..	..	..
			Total ..	227	..	..	..
Nellore ..	541	No. 514, dated 1st July 1897.	Duttalur	8	..	..	..
		No. 942, dated 12th November 1897.	Potukonda extension				
		No. 979, dated 22nd November 1897.	Veminabhi extension	2	..	..	..
		No. 978, dated 22nd November 1897.	Peramanakondur				
		No. 1066, dated 17th December 1897.	Rapur-Veligonda extension A.	3	..	..	..
		No. 73, dated 7th February 1898.	Vedanaparti				
		No. 299, dated 23rd May 1898.	Cherlopalli extension	5	..	..	..
		No. 301, dated 23rd May 1898.	Mogallur block B extension ..				
		No. 295, dated 20th May 1898.	Rapur-Veligonda extension C.				
		No. 300, dated 23rd May 1898.	Pallakonda	11	..	..	..
	*	No. 302, dated 23rd May 1898.	Tummalatalpur extension ..				
		No. 329, dated 3rd June 1898.	Rapur-Veligonda extension B.				
		No. 328, dated 3rd June 1898.	Sydapuram A extension ..	2	..	..	..
		No. 328, dated 3rd June 1898.	Do. B extension ..				
		No. 354, dated 23rd June 1898.	Tirumalapad				
			Total ..	31	1,322	..	42 10 4

* Reservation takes effect from 1898–99.

† By rounding off fraction.

incurred on, Forest Settlements during 1897–98—*cont.*

Areas undergoing settlement.						
At commencement of the year.		Taken in hand during the year.		Expenditure incurred during the year on areas undergoing settlement.		Estimate of areas in which settlement operations have not yet commenced.
Name of tract.	Area.	Name of tract.	Area.	In forest accounts.	In other accounts.	
9	10	11	12	13	14	15
Circle—cont.						
	SQ. MLS.		SQ. MLS.	RS.	RS.	SQ. MLS.
Ratnagiri	3	....	..	..	..	
Hottabetta, north	13	....	..	..	..	
Kondapalli	7	....	..	..	..	
Narasampalli	3	....	..	..	..	
Yemmihatty	5	....	..	..	..	
Pillahalli		....	..	..	..	
Iydukallu	6	....	..	..	..	
Shettura	7	....	..	..	..	
Khyrevu	10	....	..	..	..	
Total ..	54		..	..	..	
Circle.						
Lankamalai extension ..	68	Papepalle east	17			
Idupalapaya extension ..	21	Do. west				
Ganganapalle extension ..	60	Gandikota extension A ..	11			
Yellutla extension	8	Do. B ..				
Sangasamudram	8	Do. C ..				
Seshachelam extension ..	71	Kosinepalle extension ..	2	(*a*)		
Vontimitta extension ..	4	Pandikunta	4	1,835	..	115
Palakonda extension	49	Kanakalakonda extension ..	7			
Konarazupalle extension ..	36	Cheyyaveram extension ..	8			
Chitvel extension	22	Seshachelam extension D ..	26			
Kanchelamoram extension ..	25	Kokilatikanama extension ..	10			
Neridikonda	10	Patur extension	8			
Musalikonda	4	Dhodyam extension A ..	3			
Gundlakonda	7					
Madhaveram extension, east ..	8					
Do. west ..						
Sibyala extension, north ..	2					
Do. south ..						
Total ..	403		96	1,835	..	
Sriharikota	40	....	..			
Mahimalur	15	....	..			
Gavaravaram	11	....	..			
Tammenapatam extension ..	1	....	..			
Yenukolla-Gundamadakala ..	6	....	..			
Balayapalli	1	....	..			
Korisakonda	7	....	..			
Udayagiri-Veligonda extension.	4	....	..	4,050	..	338
Rapur-Veligonda B block extension.	3	....	..			
Chintalapalem	1	....	..			
Chipinapi						
Chaganam extension	1	....	..			
Gundlakonda	5	....	..			
Total ..	95		..	4,050	..	

(*a*) Amount spent during the year.

Statement showing the Progress made in, and the Expenditure

Name of forest district.	Area already settled at commencement of year.	Areas finally settled during the year.					
		Number and date of Government Order according final sanction to the settlement.	Name of forest settled.	Area.	Expenditure incurred during the year on areas finally settled.		Entire cost per square mile of areas finally settled during the year.
					In forest accounts.	In other accounts.	
1	2	3	4	5	6	7	8
							Central.
	SQ. MLS.			SQ. MLS.	RS.	RS.	RS. A. P.
Chingleput.	203 (*c*)—9	No. 771, dated 8th September 1897.	Koliyalam	2	..	..	..
		No. 770, dated 8th September 1897.	Tirukkalu Kundaram extension No. II.	2	..	..	..
		No. 34, dated 17th January 1898.	Kovilpadagai extension No. I.				
		No. 33, dated 17th January 1898.	Meyyoor extension No. II ..				
		No. 107, dated 21st February 1898.	Nandambakkam extension No. I.				
		No. 118, dated 28th February 1898.	Nanmangalam extension No. I.	1	..	..	..
		No. 158, dated 18th March 1898.	Meyyoor extension No. I ..				
		No. 216, dated 22nd April 1898.	Melmeyyoor				
		No. 800, dated 20th September 1897.	Vallam extension No. 2 ..				
		No. 775, dated 9th September 1897.	Ugumudi extensions Nos. 1, 5 and 6				
		No. 1058, dated 16th December 1897.	Perumbakkam extension I ..	2	..	..	..
		No. 113, dated 25th February 1898.	Tirumalavoyal extension I ..				
		No. 67, dated 2nd February 1898.	Tirumeni extension II ..				
			Total ..	7	..	..	..
North Arcot.	1,023	No. 584, dated 17th July 1897.	Pakala A and B				
		No. 650, dated 29th July 1897.	Penamur extensions A and B..	9	..	..	..
		No. 755, dated 4th September 1897.	Kempasamudram A and B ..	2	..	..	..
		No. 891, dated 25th October 1897.	Santhapet extensions A, C and D.	1	..	..	..
		No. 1021, dated 6th December 1897.	Tandappan tangal extension A.				
		No. 1065, dated 17th December 1897.	Nambedu extensions A, B and C.	9	..	..	..
		No. 246, dated 29th April 1898.	Sanankuppam				
		No. 235, dated 27th April 1898.	Palmaner	3	..	..	..
			Total ..	24	..	..	..
South Arcot.	653	No. 889, Revenue, dated 23rd October 1897.	Uchimalai	2	..	..	..
		No. 815, Revenue, dated 27th September 1897.	Munnurmangalam				
		No. 677, Revenue, dated 4th August 1897.	Annamangalam				
		No. 791, Revenue, dated 16th September 1897.	Melakondalapadi eastern bit ..	6			..
		Do.	Do. western bit ..				
		Do.	Do. central bit ..				
		No. 795, Revenue, dated 17th September 1897.	Pichavaram extension ..		10	Information not available.	

(*c*) Disafforested.

incurred on, Forest Settlements during 1897-98—*cont.*

Areas undergoing settlement.				Expenditure incurred during the year on areas undergoing settlement.		Estimate of area in which settlement operations have not yet commenced.
At commencement of the year.		Taken in hand during the year.				
Name of tract.	Area.	Name of tract.	Area.	In forest accounts.	In other accounts.	
9	10	11	12	13	14	15
Circle—cont.						
	SQ. MLS.			RS.	RS.	SQ. MLS.
Tandarai extension No. I ..		Kattankolathur extension No. I				
Nanmangalam extension No. II.	1	Anjur extension No. I ..				
Tirumalavoyal extension No. II		Sonallur extension No. I ..				
		Do. No. II ..				
		Senkundram extension No. I ..				
		Sirukundram extension No. I.				
		Kavanur extension No. I ..				
		Gudalur extension No. I ..				
		Do. No. II ..				
....		Madayathur extension No. I ..				
....		Alathur extension No. I ..				
....		Sirukundram B extension No. I.				
....		Nemali extension No. II ..				
....		Kattur extension No. I ..				
....		Do. do. ,, II ..	13	3,145	..	
....		Do. do. ,, III ..				
....		Illalur extension No. I ..				
....		Do. do. ,, II ..				
....	13	Maiyur				
....		Kattu Gudalur extension No. I.				
		Acharavakkam extension No. I.				
....		Karunguli				
....		Marudam				
....		Kavanipakkam				
....		Edamanchie				
....		Valluvapakkam				
....		Salaiyur				
....		Madambakkam extension No. I				
		Vattambakkam extension No. I				
Total ..	..		13	3,145	..	
Pattikonda	7					
Peddur extension	15					
Musalimadugu extension ..	3	Kinatipalli extension B ..	*	2,396	..	
Pallelakuppam extension A ..	10					
Kallapadi	10					
Solavaram extension	1					
Basuvareddipalli extensions A and B.	8					
Alapalli	3					
Nellipatla	12					
Viralabunda	4					
Totakanama	8					
Total ..	81		..	2,396	..	
Pinjur	12					
Sorakolathur	8					
Damarakadu	11					
Marur						
Odiyanatham	3					
		Nil.	*Nil.*	983	Information not available.	..

* Below one square mile.

Statement showing the Progress made in, and the Expenditure

Name of forest district.	Area already settled at commencement of year.	Areas finally settled during the year.					
		Number and date of Government Order according final sanction to the settlement.	Name of forest settled.	Area.	Expenditure incurred during the year on areas finally settled.		Entire cost per square mile of areas finally settled during the year.
					In forest accounts.	In other accounts.	
1	2	3	4	5	6	7	8
							Central
	SQ. MLS.			SQ. MLS.	RS.	RS.	RS. A. P.
South Arcot —*cont.*	..	No. 673, Revenue, dated 4th August 1897.	Thottapadi	2	10	Information not available.	..
		No. 698, Revenue, dated 17th August 1897.	Tachur	2			
		No. 895, Revenue, dated 27th October 1897.	Ravathanallur				
		No. 894, Revenue, dated 26th October 1897.	Melpalankur	11			
		No. 872, Revenue, dated 12th October 1897.	Aviriyur				
			Total ..	23	10	..	..
Salem ..	1,226	....	....	..	..	..	..
Trichinopoly.	189	No. 838, dated 5th October 1897.	Valaiyur	3	..	..	..

incurred on, Forest Settlements during 1897–98—*cont.*

Areas undergoing settlement.						
At commencement of the year.		Taken in hand during the year.		Expenditure incurred during the year on areas undergoing settlement.		Estimate of areas in which settlement operations have not yet commenced.
Name of tract.	Area.	Name of tract.	Area.	In forest accounts.	In other accounts.	
9	10	11	12	13	14	15
Circle—cont.						
	SQ. MLS.		SQ. MLS.	RS.	RS. A. P.	SQ. MLS.
Sankarapuram tope, north ..	1	*Nil.*	*Nil.*		Information not available.	..
Kottuvananjur tope ..						
Puttai tope						
Rattumylur extension ..						
Total ..	35		..	983	..	
Vellalagundam	5	Velampatti	9			
Pattimedu extension	35	Kurichi	..			
Mavur		....	..			
Shelur						
Onnakkarai	6	....	..	2,321*	..	271
Vathampatti	12	....	..			
Morappur		....	..			
Ponnagarapatti	6	....	..			
Poyappatti	5	....	..			
Ubbarani	19	....	..			
Total ..	88		9	2,321	..	
Tatchankurichi	4	....	..			
Kudur Kalvarayankolam ..	4	....	..			
Peruvalappur						
Adavathoor tank-bed ..						
Punganur do.	6	....	..			
Kumarikutti hill						
Mogavanur						
Shemmalai extension No. 1 ..						
Nanganur (Viramalai eastern extension).						
Aniyappur (Viramalai western extension).	4	....	..			
Arasadi Arivithi						
Puliyur extension No. 1 ..						
Kurumbalur	12	....	..	2,473	..	56
Naranamangalam						
Irur						
Pillankolam						
Iyanarpalayam	4	....	..			
Kariyanur						
Vannarampundi						
Mattavarai Mavalingai ..						
Sirukodal	8	....	..			
Kunnam						
Mangalam						
Sittalai	12	....	..			
Vempavur						
Mettupalayam						
Pulambadi No. 1						
Do. ,, 2						
Puliyur extension No. 2 ..	13	....	..			
Siruvachur						
Peraiyur						

* This figure was arrived at by the Forest Settlement-officer by dividing the total expenditure by the number of weeks the Forest Settlement-officer was in charge.

Statement showing the Progress made in, and the Expenditure

Name of forest district.	Area already settled at commencement of year.	Areas finally settled during the year.					
		Number and date of Government Order according final sanction to the settlement.	Name of forest settled.	Area.	Expenditure incurred during the year on areas finally settled.		Entire cost per square mile of areas finally settled during the year.
					In forest accounts.	In other accounts.	
1	2	3	4	5	6	7	8
							Central
	SQ. MLS.			SQ. MLS.	RS.	RS.	RS.
Trichinopoly —*cont.*	189	....	....	..	..	..	..
Tanjore ..	18	....	North casuarina extension ..	* ..	..	..	..
							Southern
South Canara.	128 +25 (*a*)	No. 984, dated 24th November 1897.	Murkodihola	13	*Nil.*	Approximately Rs. 335-5-4.	Approximately Rs. 11-10-10.
		No. 1020, dated 6th December 1897.	Suraladvi				
		No. 9, dated 5th January 1898.	Herur				
		No. 7, dated 5th January 1898.	Nujina Ane				
		No. 105, dated 19th February 1898.	Kurseguddi				
		No. 306, dated 25th May 1898.	Charmadikanapadi †	20			
				33			

(*a*) Rectification of area. * Below one square mile. † Takes effect from 1898-99.

incurred on, Forest Settlements during 1897–98—*cont.*

Areas undergoing settlement.						Estimate of areas in which settlement operations have not yet commenced.
At commencement of the year.		Taken in hand during the year.		Expenditure incurred during the year on areas undergoing settlement.		
Name of tract.	Area.	Name of tract.	Area.	In forest accounts.	In other accounts.	
9	10	11	12	13	14	15
Circle—cont.						
	SQ. MLS.		SQ. MLS.	RS.	RS.	SQ. MLS.
Periyavalayam eastern extension No. 1.						
Periyavalayam western extension No. 2.						
Yedayathangudi						
Sundaresvarapuram extension .	5	....	..	..	..	
Ulliyakkudi extension ..						
Pilakkurichi						
Tirukonam extension						
Vilangudi extension No. 1 ..						
Do. ,, 2 ..						
Vengaram	1	....	..	..	..	
Alavoy extension	1	....	..	..	..	
Kargipakam extension ..						
Siluvacheri	2	....	..	..	..	
Kulumur extension						
Kilakolathur	2	....	..	..	..	
Total ..	78		..	..	..	
....	..	....	..	..	..	
Circle.						
Hulimishepare	3	Nananjimale	2			
Mensinaguddi	1	Porkal	7	*Nil.*		
Hullumurdibare	16	Kadimbila	3			
Halakkihola		Shiradi extension	7			
Balkattehola		Shibaje				
Vadanaberuhola	5	....	..	..		
Jarkalane		....	..	..		
Suttihola		....	..	..		
Hulikuppana Ane		....	..	..		
Mudugalpare	12	....	..	..		
Naganakalbare	10	....	..	..		
Kamradihola		....	..	..		
Naravi	101	....	..	..		
Mettukallugudde	9	....	..	..		
Karkamadi	2	....	..	..		
Neralamankane		....	..	..		
Sampekere	4	....	..	..		
Chittur		....	..	..		
Jarvuttukadu		....	..	..		
Markalgudde	1	....	..	..		
Doddinamane	6	....	..	..		
Bakudihola	2	....	..	..		
Halisomeshwar	3	....	..	..		
Jattakattumale	2	....	..	..		
Madibare	30	....	..	..		51
Koratikalbare	10	....	..	..		
Megani valley	28	....	..	..		
Tombattu	20	....	..	..		
Surikodlu	6	....	..	..		
Balimane	20	....	..	..		
Mavinakodlu	3	....	..	..		
Someshwar	37	....	..	..		
New Someshwar	4	....	..	..		
Baregundi	13	....	..	..		
Baindur	10	....	..	..		
Mavinaguli	2	....	..	..		
Doddnaberu	1	....	..	..		
Hurabe	1	....	..	..		
Kalangimale	9	....	..	..		
Karadka		....	..	..		

Approximately Rs. 6,110-10-8.

Statement showing the Progress made in, and the Expenditure

Name of forest district.	Area already settled at commencement of year.	Areas finally settled during the year.					
		Number and date of Government Order according final sanction to the settlement.	Name of forest settled.	Area.	Expenditure incurred during the year on areas finally settled.		Entire cost per square mile of areas finally settled during the year.
					In forest accounts.	In other accounts.	
1	2	3	4	5	6	7	8
							Southern
South Canara —*cont.*	SQ. MLS.			SQ. MLS.	RS. A. P.	RS.	RS.
North Malabar.	157	No. 997, dated 29th November 1897.	Wood-stock	0·20	Approximately 56 6 5	..	..
South Malabar.	40	....	....	..	..	..	..
The Nilgiris.	358	No. 496, dated 28th June 1897.	Nirburra	179 acres or 0.29 sq. mls.	..	..	..

incurred on, Forest Settlements during 1897-98—*cont.*

Areas undergoing settlement.						Estimate of areas in which settlement operations have not yet commenced.
At commencement of the year.		Taken in hand during the year.		Expenditure incurred during the year on areas undergoing settlement.		
Name of tract.	Area.	Name of tract.	Area.	In forest accounts.	In other accounts.	
9	10	11	12	13	14	15

Circle—cont.

	SQ. MLS.		SQ. MLS.	RS.	RS.	SQ. MLS.
Mulliar	3	....	..	..		
Chinkramale extension ..	1	....	..	..		
Savantagudde	1	....	..	..		
Virakhamba	3	....	..	..		
Kodiamale	2	....	..	..		
Mensinakan	2	....	..	..		
Panambare	1	....	..	..		
Total ..	384		19	..	..	
Kannoth	40	....	..	Approximately 3,191-13-0	..	18
Kannoth extension A	2	....	..		..	
Periya	21	....	..		..	
Dindimal	2	....	..		..	
Padri	48	....	..		..	
Periya extension	2	....	..		..	
Total ..	115		..	..	..	..
Nilambur Range.						
1 Nilambur block	168	....	..	..	..	29
2. Pokote						
3. Panangod						
4. Valluvasseri						
5. Kanakut						
6. Erambadam						
7. Ambalakandi						
8. Arimbracuttamala ..						
9. Mangalasseriparamba ..						
10. Puthalath and Chitharikal-paramba.						
Amarampalem Range.						
11. Muriat						
12. Kariem						
13. The new Amarampalam forest.						
PALGHAT RANGE.						
Attapady Valley.						
14. Block No. I	91	....	..	..	..	
15. Do. ,, II						
16. Do. ,, III						
17. Do. ,, IV						
Total ..	259		..	..	..	
Belerambu Hulla	1	Wenlock downs	33	..	..	22
Keraipadu		Carritt Shola No. 1	1	..	..	
Mullimulai		Do. ,, 2				
Arappilai		Do. ,, 3				
Sampangi		Do. ,, 4				
Bikkemara		Do. ,, 5				
Neggilhada		Thambarakadavu				
Thogalhatti		Ullanni				
Mokkai		Salada				
Uchchukadavu		Arigodalu				
Konemara		Selikallu				
Selemara		Bikkamalai				
		Rajbag				
		Gathada				
		Halakarai addition No. 1 ..				
		Do. ,, 2 ..				

Statement showing the Progress made in, and the Expenditure

Name of forest district.	Area already settled at commencement of year.	Areas finally settled during the year.					
		Number and date of Government Order according final sanction to the settlement.	Name of forest settled.	Area.	Expenditure incurred during the year on areas finally settled.		Entire cost per square mile of areas finally settled during the year.
					In forest accounts.	In other accounts.	
1	2	3	4	5	6	7	8
							Southern
	SQ. MLS.			SQ. MLS.	RS. A. P.	RS.	RS.
The Nilgiris —*cont.*	..	....	....	..	..	..	..
			Total ..	..	..	..	..
North Coimbatore.	1,054 (*c*)—3	No. 103, dated 19th Feb 1898.	Virumandampalayam	3	..	2,473	824
		No. 152, dated 12th March 1898.	Sinnaveerasangili				
		No. 157, dated 18th March 1898.	Voipadi				
		No. 352, dated 23rd June 1898.	Vellodu *	2	..	..	..
		No. 279, dated 16th May 1898.	Guligi *				
			Total ..	5	..	..	..
South Coimbatore.	654	....	....	..	..	..	..
Madura ..	565 (*a*) —10	No. 506, Rev., dated 29th June 1897.	Kappuvamadi	12	374 7 11	..	31 3 4
		No. 816, Rev., dated 27th Sept. 1897.	Mulaiyar				
		No. 156, Rev., dated 16th March 1898.	Nallatevanpatti				
		No. 228, Rev., dated 25th April 1898.	Kudavanar				
		No. 261, dated 7th May 1898.	Kodimangalam *	5	..	..	..
			Total ..	17	..	..	..
Tinnevelly ..	410	No 1009, Rev., dated 3rd December 1897	Melapattam	2	..	..	..
		No. 620, Rev., dated 24th July 1897.	Extension to Kottamadakki reserved forest block V.				
		No. 229, Rev., dated 25th April 1898.	Vannamutti				
		No. 334, Rev., dated 7th June 1898.	Alakonandal *	†	..	..	..
		Do. ..	Shermalai *				
		Do. ..	Nelliyuthu *				
		No. 283, Rev., dated 18th May 1898.	Mahendragiri *			*	
			Total ..	2	..	..	..

(*a*) Rectification. (*c*) Disafforested.
* Reservation takes effect from 1898-99. † Below one square mile.

incurred on, Forest Settlements during 1897-98—*cont.*

Areas undergoing settlement.						
At commencement of the year.		Taken in hand during the year.		Expenditure incurred during the year on areas undergoing settlement.		Estimate of areas in which settlement operations have not yet commenced.
Name of tract.	Area.	Name of tract.	Area.	In forest accounts.	In other accounts.	
9	10	11	12	13	14	15
Circle—cont.						
	SQ. MLS.		SQ. MLS.	RS.	RS. A. P.	SQ. MLS.
		Dolphin reserve addition ..				
		Ottupattadai				
		Karimara	..	..	..	
		Black bridge addition ..				
		Black heath				
Total ..	1		34	..	..	
Yedaralli	212	....	..	..	..	
Maddeswaramalai or Ponnachi.	246	....	..	..	..	
Cowdally	25	....	..	..	..	
Arachalur		....	..	..	..	
Sennimalai		....	..	..	..	37
Pandianpalayam		....	..	..	..	
Kanjicoil	9	....	..	..	..	
Attavani		....	..	..	..	
Thambikalayan		....	..	..	..	
Hanur	34		..	..	..	
Total ..	526		..	..	..	
Sankarayapuram	3	....	..	..	..	
Nellimalai						
Andipatti, south	9	....	..	..	..	
Anaigirishola	2	....	..	..	2,472 15 3	
Kadavumalai						
Koviladi	1	....	..	..	..	
Siruganimalai						
Umaiyar	9	....	..	..	..	
Sirumalai north-west slopes ..						
Thoppasamimalai	14	....	..	..	..	
Erakalamali	6	....	..	..	..	
Total ..	41	Total ..	..	..	2,472 15 3	
Manpothai	2	Lands adjoining Srivilliputtur ghaut forests block I ..	1	..	2,472-15-3.	
Gangaikondan	2			45		
Vaippar		Kansapuram		..		
Chintamony block	2	Melavittan extension		..		
Mullakadu block		....	..	..		
Extension to Kadayanalloor reserved forest III C_2 A.	1	....	..	146		
Extension to Kadayanalloor reserved forest III C_2 B.		....	..	..		
		....	..	38		
			..	..		
Total ..	7	Total ..	1	..	..	

Note.—Figures in column 13 represent compensation paid to owners of patta rights acquired in the tracts noted against each.

Appendix A.

Forest Settlement.

Particulars of balance of Lands under Settlement.

District.	Total number and area of blocks brought under settlement up to end of 1897-98.		Total number and area of blocks constituted finally as reserved forests up to end of 1897-98.		Balance at end of 1897-98.	
	Number.	Area.	Number.	Area.	Number.	Area.
1	2	3	4	5	6	7
Northern Circle.		SQ. MLS.		SQ. MLS.		SQ. MLS.
Ganjám	44	556 (a) + 12 (d) — 5	25	245	19	318
Vizagapatam	50	312	25	137	25	175
Gódávari	80	975 (a) — 2 (d) — 3	71	846 (a) — 2	9	126
Kistna	184 (b) — 2	899 (a) + 2 (b) — 6 (d) — 2	118	706	64	187
Kurnool	58	2,399 (d) — 4	40	1,962	18	433
Bellary	125	506 (a) — 12 (e) — 1	108	471 (a) — 12 (e) — 1	17	35
Anantapur	76 (b) — 1	514 (b) — 1 (d) — 1	64	450	11	62
Total, Northern Circle	614	6,138	451	4,817 (a) — 14 (e) — 1	163	1,336
Central Circle.						
Cuddapah	178 (b) — 1	2,310 (b) — 5	144	1,650 (e) + 1	33	654
Nellore	157	670 (d) — 3	135	554	22	113
Chingleput	229 (a) + 1 (c) — 31	225 (c) — 9 (d) — 1	198 (c) — 31	210 (c) — 9	32	14
North Arcot	149	1,133 (b) — 3 (d) — 2	136	1,047	13	81
South Arcot	159 (b) — 1	715 (b) — 1 (d) — 3	148	676	10	35
Salem	167 (b) — 14	1,367 (a) — 2 (b) — 41 (c) — 1	141	1,229 (a) — 2 (c) — 1	12	97
Trichinopoly	111	270	65	192	46	78
Tanjore	15	18	15	18	..	..
Total, Central Circle	1,119	6,637	982 (c) — 31	5,576 (a) — 2 (c) — 10 (e) + 1	168	1,072
Southern Circle.						
South Canara	93	564 (a) + 25	40	141 (a) + 25	53	423
North Malabar	23	272	17	157	6	115
South Malabar	27	299	10	40	17	259
The Nilgiris	274	393	241	359 (c) — 1	33	35
North Coimbatore	41	1,587 (c) — 3 (d) — 2	29	1,057 (c) — 3	12	528
South Coimbatore	18	657	16	654	2	3
Madura	149	616 (a) — 2 (d) — 1	139	577 (a) — 10	10	46
Tinnevelly	55 (b) — 1	426 (b) — 2 (d) — 2	41	412	13	10
Total, Southern Circle	679	4,827	533	3,397 (a) + 15 (c) — 4	146	1,419
Grand Total	2,412	17,602	1,966 (c) — 31	13,790 (a) — 1 (c) — 14	477	3,827

(a) Rectification. (b) Initial notifications cancelled. (c) Disafforested.
(d) Excluded at settlement. (e) By rounding off fractions in previous year's figures.

APPENDIX A—*cont.*

Forest Settlement—cont.

Particulars of balance of Lands under Settlement—*cont.*

District.	Classification of balance in columns 6 and 7.											
	Settled and reported on.											
	Notified under section 16 during 1897-98, but reservation effected only after 30th June 1898.		With Board or Government awaiting publication of notification under section 16.		Returned by the Board for revision and remaining either with Collector, District Forest-officer or Forest Settlement-officer.		Total settled and reported on.		Settled, but not reported on.		Settlement proceeding.	
	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.
	8	9	10	11	12	13	14	15	16	17	18	19
Northern Circle.		SQ. MLS.		SQ. MLS.		SQ. MLS.		SQ. MLS.		SQ. MLS.		SQ. MLS.
Ganjám	..	..	6	123	1	25	7	148	5	54	7	116
Vizagapatam	8	1	2	73	..	..	10	74	5	93	10	8
Gódávari	1	3	..	..	..	..	1	3	3	92	5	31
Kistna	4	7	7	14	3	7	14	28	1	7	49	152
Kurnool	..	..	2	19	1	1	3	20	2	21	13	392
Bellary	..	..	3	6	..	..	3	6	..	..	14	29
Anantapur	2	8	1	13	..	..	3	21	3	12	5	29
Total, Northern Circle.	15	19	21	248	5	33	41	300	19	279	103	757
Central Circle.												
Cuddapah	2	155	1	11	1	68	4	234	1	4	28	416
Nellore	9	18	6	66	..	..	15	84	5	27	2	2
Chingleput	..	..	12	3	2	1	14	4	2	1	16	9
North Arcot	..	..	3	18	3	18	6	36	3	10	4	35
South Arcot	..	..	3	11	1	12	4	23	6	12	..	..
Salem	..	..	2	9	5	26	7	35	1	28	4	34
Trichinopoly	..	..	11	15	..	..	11	15	..	..	35	63
Tanjore	..	..	..	..	..	..	..	..	..	..	..	..
Total, Central Circle ..	11	173	38	133	12	125	61	431	18	82	89	559
Southern Circle.												
South Canara	1	20	6	22	5	103	12	145	11	136	30	142
North Malabar ..	..	..	..	..	1	2	1	2	4	111	1	2
South Malabar ..	..	..	1	150	..	..	1	150	12	19	4	90
The Nilgiris	..	..	3	* ..	..	..	3	* ..	14	1	16	34
North Coimbatore ..	2	2	4	39	1	212	7	253	2	1	3	274
South Coimbatore ..	..	..	1	1	..	..	1	1	..	..	1	2
Madura	1	5	..	..	2	9	3	14	1	9	6	23
Tinnevelly	4	* ..	1	2	4	4	9	6	..	..	4	4
Total, Southern Circle.	8	27	16	214	13	330	37	571	44	277	65	571
Grand Total, Presidency.	34	219	75	595	30	488	139	1,302	81	638	257	1,887

* Below one square mile.

APPENDIX A—*cont.*

Forest Settlement—cont.

Particulars of balance of Lands under Settlement—*cont.*

Of lands notified under section 4 in the year.

District.	1883-84.		1884-85.		1885-86.		1886-87.		1887-88.		1888-89.		1889-90.		1890-91.		1891-92.		1892-93.		1893-94.		1894-95.		1895-96.		1896-97.		1897-98.	
	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.
	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49
Northern Circle.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.
Ganjám ..	..	..	11	278	3	22	..	..	..	..	..	..	..	..	..	..	1	2	4	16	..	..	..	..	..	..	..	..	..	..
Vizagapatam ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	41	2	125	..	..	2	*..	..	..	8	1	11	8
Gódávari ..	..	..	..	..	..	..	..	..	..	..	..	..	5	71	1	33	..	..	..	..	..	..	..	..	..	..	..	..	3	22
Kistna	..	..	..	..	..	..	..	..	..	..	..	..	3	12	..	..	1	13	2	3	..	..	2	12	4	4	22	49	†30	94
Kurnool ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	49	..	..	..	..	3	85	..	..	5	‡88	7	211
Bellary	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	12	10	‡19	3	4
Anantapur ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	9	53	2	9	..	..	..	..
Total ..	..	..	11	278	3	22	..	..	..	..	..	..	8	83	1	33	7	105	8	144	..	..	16	150	10	25	45	157	54	339
Central Circle.																														
Cuddapah ..	1	137	..	..	..	..	1	18	..	..	..	..	..	..	..	..	..	..	1	68	..	..	6	172	4	132	7	31	13	96
Nellore	1	40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	27	2	13	17	33	..	..
Chingleput ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	1	..	..	29	13
North Arcot ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	7	3	21	2	18	6	35	1	*..
South Arcot ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	20	..	..	1	2	1	9	6	4	..	..
Salem	..	..	..	..	..	..	..	..	..	..	..	..	1	4	..	..	..	..	..	..	1	6	3	15	5	63	..	..	2	9
Trichinopoly ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	46	‡78	..	..
Tanjore ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total ..	2	177	..	..	..	..	1	18	..	..	..	..	1	4	..	..	..	..	3	88	2	13	15	237	17	236	82	181	45	118
Southern Circle.																														
South Canara ..	..	..	..	..	1	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	19	64	10	207	8	90	10	23	5	19
North Malabar..	..	..	2	69	1	40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	2	1	2	..	..	1	2	..	..
South Malabar ..	..	..	..	..	..	..	..	..	12	19	5	240	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
The Nilgiris ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	12	1	21	34
North Coimbatore	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	458	..	..	..	..	1	34	4	8	..	..	5	28	..	..
South Coimbatore	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	3	1	*..	..	..
Madura	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	9	46	..	..	1	*..	..	..	..	..	..	..	..	..
Tinnevelly ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	4	7	6	1	2	1
Total ..	..	..	2	69	2	60	..	..	12	19	5	240	..	..	2	458	9	46	..	..	22	100	16	218	13	100	35	55	28	54
Grand Total ..	2	177	13	347	5	82	1	18	12	19	5	240	9	87	3	491	16	151	11	232	24	113	47	605	40	361	162	393	127	511

* Below one square mile. † Thirty-one blocks were notified during the year, but the initial notification of one them was cancelled.
‡ By rectification or rounding off fractions.

Appendix B.

Causes of delay in the submission of final Notifications of Forest Reserves.

Districts.	Causes of delay.														
	Notified under section 16 during 1897–98, but with effect only after 30th June 1898.	With Board or Government awaiting publication of notification under section 16.	Pending preparation of maps.	Awaiting disposal of appeals.	Awaiting expiry of time prescribed for appeal.	Only recently notified or re-notified under section 4.	Awaiting payment of compensation or exchange of lands.	Awaiting settlement of claims under enquiry.	Awaiting District Forest-officers' answers to claims, demarcation, &c.	Settled, but final report pending with the Collector or Forest Settlement-officer.	Pending with the Collector or Forest Settlement-officer for revision of notification.	Awaiting replies to references made to Collector or Board.	Awaiting inspection by the Forest Settlement-officer.	Other causes, *i.e.*, awaiting information from Tahsildars, return of records from the District Court, &c.	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Ganjám	..	6	5	..	..	2	..	..	1	3	1	..	..	1	19
Vizagapatam	8	2	..	..	..	..	..	9	..	5	..	..	1	..	25
Gódávari	1	..	..	..	..	..	1	4	..	3	..	..	..	..	9
Kistna	4	7	3	3	1	7	6	11	1	5	..	..	9	7	64
Kurnool	..	2	..	..	..	2	2	4	..	3	..	1	1	3	18
Bellary	..	3	..	..	..	1	..	..	1	3	..	..	9	..	17
Anantapur	2	1	..	..	..	..	..	..	4	3	..	..	..	1	11
Cuddapah	2	1	..	..	1	2	..	3	3	2	1	1	11	6	33
Nellore	9	6	2	..	2	..	..	1	..	2	..	..	..	..	22
Chingleput	..	12	..	..	1	..	2	9	..	2	2	..	..	4	32
North Arcot	..	3	1	..	..	..	2	..	..	..	3	2	1	1	13
South Arcot	..	3	..	..	..	..	..	..	..	6	1	..	..	..	10
Salem	..	2	..	..	..	..	..	..	1	..	5	..	3	1	12
Trichinopoly	..	11	..	..	10	..	..	15	4	..	..	..	..	6	46
Tanjore	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
South Canara	1	6	6	3	..	3	..	1	15	..	5	..	8	5	53
North Malabar	..	..	2	..	..	..	..	1	..	1	1	1	..	..	6
South Malabar	..	1	..	..	..	..	..	4	..	..	..	..	..	12	17
The Nilgiris	..	3	..	..	..	..	..	1	..	14	..	..	15	..	33
North Coimbatore	2	4	..	..	1	..	1	..	..	1	1	..	..	2	12
South Coimbatore	..	1	..	..	..	..	..	1	..	..	..	..	..	..	2
Madura	1	..	..	..	..	..	..	..	1	..	2	..	3	3	10
Tinnevelly	4	1	..	..	..	..	..	..	..	..	1	3	2	2	13
Total ..	34	75	19	6	16	17	14	64	31	53	23	8	63	54	477

Appendix C.

Reserved Lands not under Settlement in square miles.

Districts.	Up to 1896-97.	Added during 1896-97.	Added during 1897-98.	Total.	Transferred for settlement.				Balance remaining "reserved lands" not under settlement.
					Up to 1896-97.	During 1896-97.	During 1897-98.	Total.	
1	2	3	4	5	6	7	8	9	10
Northern Circle.									
Ganjám	559	(a) + 6 (c) — 9	(a) + 12 (b) — 5	563	550 (b) — 5	(a)+6	(a) + 12	563	..
Vizagapatam ..	415	..	1 (c) — 3	413	302	2	8	312	101
Gódávari	975	(a) + 7 (b) — 28 (c) — 1	22 (a) — 2 (b) — 3	970	946 (d) — 2 (b) — 3	(a)+7	22	970	..
Kistna	1,212	21 (b) — 25 (c) — 33 (d) — 11	10 (a) + 3 (b) — 2 (c) — 13	1,162	749 (b) — 2 (c) — 6	52	98 (a) + 2	893	269
Kurnool	2,244	80 (a) + 8 (b) — 1	352 (b) — 4 (c) — 9	2,670	2,099 (b) — 4	89	211	2,395	275
Bellary	637	(c) — 10 (d) — 1	(a) — 8 (c) — 2 (e) — 1	615	484 (d) — 12	18	4 (a) — 1	493	122
Anantapur.. ..	517	(c) — 3	(b) — 1 (c) — 1	512	514 (b) — 1 (c) — 1	..	..	512	..
Total ..	6,559	..	346	6,905	5,608	174	356	6,138	767
Central Circle.									
Cuddapah	2,357	28 (a) — 8 (c) — 17	49 (a) + 9 (c) — 18	2,400	2,183 (c) — 5	31	96	2,305	95
Nellore	661	36 (b) — 1 (c) — 12 (e) — 1	(b) — 3	680	634 (b) — 3	36	..	667	13
Chingleput ..	238	1 (c) — 26	12 (b) — 1 (c) — 9	215	211 (b) — 1 (c) — 9	1	13	215	..
North Arcot ..	1,131	16 (b) — 1 (c) — 12	(b) — 2 (c) — 3	1,129	1,098 (b) — 2 (c) — 3	35	..	1,128	1
South Arcot ..	779	4 (b) — 12 (c) — 56	(b) — 3 (c) — 1	711	711 (b) — 3 (c) — 1	4	..	711	..
Salem	1,464	3 (a) — 1 (c) — 32 (d) + 5	(c) — 41 (d) — 2	1,396	1,358 (e) — 1 (c) — 41 (d) — 2	..	9	1,323	73
Trichinopoly ..	233	70 (c) — 6	(a) — 3 (c) — 16	278	191	79	..	270	8
Tanjore	19	(c) — 1	..	18	18	..	..	18	..
Total ..	6,882	— 23	— 32	6,827	6,333	186	118	6,637	190
Southern Circle.									
South Canara ..	1,134	35 (a) + 1 (c) — 61	(c) — 11 (d) + 25	1,123	522 (d) + 25	23	19	589	534
North Malabar ..	272	2	..	274	270	2	..	272	2
South Malabar ..	328	..	..	328	299	..	..	299	29
The Nilgiris ..	452	1 (a) — 1 (c) — 2	34 (c) — 1	483	358	1	34	393	90
North Coimbatore.	1,717	2 (a) — 80 (c) — 15 (d) — 1	(b) — 2 (c) — 3 (e) + 1	1,619	1,559 (b) — 2 (c) — 3	28	..	1,582	37
South Coimbatore.	657	..	..	657	657	..	..	657	..
Madura	649	— 28	(a) — 2 (b) — 1 (c) — 5	613	612 (b) — 1 (d) — 10 (e) — 1	(a)+4	(a) + 9	613	..
Tinnevelly ..	428	3 (c) — 4	1 (b) — 2 (c) — 2	424	424 (b) — 2 (c) — 2	1	1	422	2
Total ..	5,637	— 148	32	5,521	4,705	59	63	4,827	694
Grand Total ..	19,078	— 171	346	19,253	16,646	419	537	17,602	1,651

(a) By rectification. (b) At settlement. (c) Unreserved or disafforested.
(d) By rectification of areas already constituted reserved forests. (e) By rounding off fractions in previous year's return.

ANNUAL FORM No. 46.

Forest Department, Madras Presidency.

RECORD of Demarcation and Maintenance of Boundaries.

District.	Length of boundaries artificially demarcated during the year.	Length of previously existing boundaries repaired during the year.	Length of previously existing boundaries not repaired during the year.	Total length of artificially marked boundaries at the close of the year.	Length of boundaries still to be demarcated at close of year.	Length of natural boundaries not requiring artificial marks.	Total length of boundaries at the close of the year.	Expenditure on demarcation during the year.	
								On new work.	On repairs.
1	2	3	4	5	6	7	8	9	10
Northern Circle.	MILES.	MILES.	MILES.	MILES.	MILES.	MILES.	MILES.	RS.	RS.
Ganjám	53	260	383	696	265	131	1,092	(a) 349	(a) 567
Vizagapatam	74	..	(b) 239	313	(b) 50	Not known.	363	1,772 (c)+ 119	156
Gódávari	108	296	556	969	49	374	1,383	(a) 701	(d) 428
Kistna	78	41	738	857	(e) ..	..	857	(a) 1,635 (c)+ 10	641 (f) 404
Kurnool	85	6 (g) 483	..	574	639	157	1,370	3,052 (c)+ 81	4
Bellary	137	20	1,018	1,225	90	..	1,315	1,175 (c)+ 15	(d) 267
Anantapur	10	..	1,105	1,115	16	..	1,131	33 (h)+ 44	12
Total ..	595	1,106	4,039	5,740	1,109	662	7,511	8,986	2,479
Central Circle.									
Cuddapah	(i) 437	33	2,034	2,504	43	..	2,547	3,160	163
Nellore	206	60	1,037	1,303	139	86	1,528	(a) 1,446	158
Chingleput	78	21	730	829	..	..	829	1,570	(d) 706
North Arcot	116	254	2,073	2,443	69	12	2,515	1,385	954
South Arcot	154	50 (g) 51	1,531	1,786	340	..	2,126	2,518	(d) 747
Salem	21	305	1,866	2,192	180	93	2,465	51	563
Trichinopoly	9	50 (g) 177	309	545	511	..	1,056	51	258
Tanjore	..	..	79	79	..	..	79	..	..
Total ..	1,021	1,001	9,659	11,681	1,273	191	13,145	10,181	3,549
Southern Circle.									
South Canara	259	..	1,305	1,564	..	2	1,566	1,199 (c)+ 243	..
Malabar, North	18	..	420	438	80	2	520	142 (c)+ 57	..
Do. South	..	18	108	126	102	92	320	..	482
The Nilgiris	3	240	603	846	..	175	1,021	21	(d) 1,412
Coimbatore, North	43	347	331	721	2	237	960	975	1,897 (e)+ 34
Do. South	..	36	442	478	13	77	568	..	267
Madura	..	15	1,443	1,458	32	139	1,629	..	(a) 326
Tinnevelly	21 (g) 4	41	274	340	183	17	540	227	163
Total ..	348	697	4,926	5,971	412	741	7,124	2,864	4,581
Grand Total ..	1,964	2,804	18,624	23,392	2,794	1,594	27,780	22,031	10,609

N.B.—Boundaries include, besides the outer perimeter, the limits of enclosures of private or other lands within the forests, but not the limits of sub-divisions, such as blocks, compartments, coupes. The difference between the totals of columns 3 and 4 of this statement and column 5 of the previous year's statement is due to more correct computation of lengths and to the omission during the year of the boundaries of proposed reserves which were incorrectly included in the return for 1896-97.

(*a*) Includes cost of cairns repaired or erected.
(*b*) Approximate figures.
(*c*) Added to tally with the Accountant-General's audited figures under A VIII (*a*).
(*d*) Includes cost of establishment.
(*e*) Several reserves have yet to be demarcated permanently, but the work has been postponed pending the settlement of the question of introducing stone slabs instead of cairns. The lengths of the boundaries of these reserves have not been shown in the column, as the Collector has not supplied the information.
(*f*) Cost of boards for boundary and coupe lines.
(*g*) Cleared by the forest establishment.
(*h*) Cost of demarcating enclosures in 18 reserves.
(*i*) Includes rectifying 88 miles of demarcation at a cost of Rs. 590.

Annual Form No. 47.

Forest Department, Madras Presidency.

Statement of Forest Areas surveyed and under survey during the year 1897–98.

Districts.	Areas surveyed and under survey during the year 1897–98.															
	Special Surveys—Maps on 4-inch scale or over by Survey of India Department or Madras Survey.								Ordinary, included in district surveys.							
	With interior details.					Boundary surveys.			With interior details.					Boundary surveys.		
	With details of growing stock.		Without details of growing stock.		Total cost.	Previous.	Of year.	Total cost.	With details of growing stock.		Without details of growing stock.		Total cost.	Previous.	Of year.	Total cost.
	Previous.	Of year.	Previous.	Of year.					Previous.	Of year.	Previous.	Of year.				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	RS.	L. MLS.	L. MLS.	RS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	RS.	L. MLS.	L. MLS.	RS.
Ganjám *	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Vizagapatam	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gódávari	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kistna	..	..	..	..	..	17	75	168	18	..	311	19	216	185	40	1,439
Kurnool	..	..	173	214	36,784	465	81	..	..	..	..	..	..	..	..	..
Bellary	..	..	..	..	..	..	..	..	..	..	449	..	..	22	..	1,035
Anantapur	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cuddapah	..	..	..	..	..	..	219	10,527	..	..	..	..	..	..	..	..
Nellore	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chingleput	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
North Arcot	..	..	1,021	..	15,320	..	..	..	..	..	..	..	..	..	..	..
South „	..	..	99	130	8,828	.	82	..	..	..	..	..	..	..	..	..
Salem	..	..	851	366	32,000	263	42	..	..	..	..	..	..	..	..	..
Trichinopoly	..	..	66	..	25,000	253	..	..	..	..	..	..	..	151	..	..
Tanjore	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
South Canara	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
North Malabar	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
South „	12	..	..	..	314	..	..	..	..	..	..	..	..	2	..	..
The Nilgiris †	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
North Coimbatore.. ..	..	..	..	300	37,635	..	285	..	..	..	..	..	..	..	..	..
South „	..	..	652	..	..	..	..	..	..	..	2	..	..	..	..	..
Madura	..	..	566	..	..	..	..	..	..	..	..	..	..	..	..	..
Tinnevelly	..	..	410	..	..	..	..	..	..	..	..	..	..	..	..	..
Total ..	12	..	3,838	1,010	1,55,881	998	784	10,695	18	..	762	19	216	360	40	2,474

* No entries have been made by the Collector in the first 22 columns.

† The Collector has again submitted a "*nil*" return and the several columns have therefore not been filled in.

N.B.—The preparation of this form has not been correctly understood in the District-offices and the instructions of the Government of India finally disposed of in Government Order, No. 585, Revenue, dated 10th October 1898, have been since communicated to the officers. Correct figures will be obtained for the report for the current year.

Statement of Forest Areas surveyed and under survey during the year 1897-98—*cont.*

Districts.	Areas surveyed and under survey during the year 1897-98—*cont.*								Areas remaining to be taken under survey.	Total forest area at end of year, as per form No. 44.	Cost.		
	Chain and compass or other surveys by local officers.												
	With interior details.					Boundary surveys.							
	4-inch or over.		Under 4-inch.		Total cost.	Previous.	Of year.	Total cost.			Previous.	Of year.	Entire cost of all surveys to end of the year.
	Previous.	Of year.	Previous.	Of year.									
	18	19	20	21	22	23	24	25	26	27	28	29	30
	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	RS.	L. MLS.	L. MLS.	RS.	SQ. MLS.	SQ. MLS.	RS.	RS.	RS.
Ganjám *	..	..	..	..	..	258	145	9,226	..	245	7,619	1,707	9,226
Vizagapatam	114	..	..	..	2,411	94	50	1,163	23	137	3,574	..	3,574
Gódávari	93	..	..	..	..	..	..	..	751	844	..	..	..
Kistna	4	..	..	..	56	146	..	..	354	706	6,156	1,866	8,022
Kurnool	5	..	..	..	254	103	23	1,713	1,570	1,962	14,137	36,862	50,999
Bellary	..	..	..	..	..	..	..	..	9	458	1,035	..	1,035
Anantapur	450	..	..	..	..	..	..	..	..	450	..	..	..
Cuddapah	1,565	..	..	..	..	..	..	..	86	1,651	..	10,527	10,527
Nellore	554	..	..	..	..	..	..	..	..	554	..	..	..
Chingleput	201	..	..	..	..	..	..	..	..	201	..	..	..
North Arcot	26	..	..	..	..	..	..	..	..	1,047	15,320	..	15,320
South „	6	..	..	..	52	..	..	..	441	676	52	8,828	8,880
Salem	9	..	..	..	..	2	..	..	..	1,226	34,093	33,372	67,465
Trichinopoly	1	..	..	..	..	..	..	..	125	192	25,000	..	25,000
Tanjore	18	..	..	..	..	..	..	..	..	18	..	..	..
South Canara	166	..	..	..	..	317	148	..	..	166	2,753	1,092	3,845
North Malabar	..	..	..	..	..	34	37	728	157	157	493	235	728
South „	28	..	..	..	..	..	..	..	..	40	314	..	314
The Nilgiris †	..	..	..	..	..	..	..	..	..	358	..	..	..
North Coimbatore ..	..	..	..	..	..	..	..	..	754	1,054	..	37,635	37,635
South „ ..	..	..	..	..	..	..	..	..	..	654	..	..	..
Madura	..	..	..	..	..	..	..	..	1	567	843	305	1,148
Tinnevelly	..	..	..	..	..	..	..	..	2	412	..	..	..
Total ..	3,240	..	..	..	2,773	954	403	12,830	4,273	13,775	1,11,289	1,32,429	2,43,718

* No entries have been made by the Collector in the first 22 columns. † The Collector has again submitted a "*nil*" return and the several columns have therefore not been filled in.

N.B.—The preparation of this form has not been correctly understood in the District-offices and the instructions of the Government of India finally disposed of in Government Order, No. 585, Revenue, dated 10th October 1898, have been since communicated to the officers. Correct figures will be obtained for the report for the current year.

Appendix D.

Abstract of District Reports in regard to the maintenance of maps in accordance with the provisions of section 81 of the Forest Code.

Northern Circle.

Ganjám.—Forty-three reserve maps were prepared during the year and the district and range maps posted up to 30th June 1898. All the maps prescribed in section 81 of the Forest Code were maintained except those for working circles, there being neither working plans nor working circles in the district.

Vizagapatam.—Range, reserve and other maps have been maintained as usual.

Gódávari.—The district and range maps have been maintained and separate maps for each reserve kept.

Kistna.—Eighty-five maps for 38 reserves were prepared for printing them at the Central Survey office. One hundred and ninety-seven sketches for 57 reserves were prepared to follow notifications under section 4 of the Forest Act.

Kurnool.—The district and range forest maps have been maintained and posted up to date; separate maps for the reserves were prepared in tracing cloth and copies sent to Range officers. During the year a range map (scale 1″ = 4 miles) showing the necessary information was prepared and supplied to the Conservator of Forests and Range officers.

Bellary.—Instructions regarding the maintenance of the district, range and reserve maps were attended to.

Anantapur.—The district key-map has been posted up to date, as also taluk maps for eight taluks.

Central Circle.

Cuddapah.—The district and range maps prescribed in the Forest Code were maintained and posted up to date. Tracings of 54 reserve maps were prepared and issued to Range officers. Maps for fifteen new reserves were prepared.

Nellore.—Fourteen sketch-maps of reserves were prepared and supplied to Range officers during the year.

Chingleput.—The district, range, taluk and reserve maps have been maintained and posted up to date and copies of 75 sketches of final maps have been made and supplied to Range officers. Twenty-nine new sketches have been prepared to follow notification under section 4, and 58 of the same were prepared for the use of Range officers and for office reference.

North Arcot.—The district map has been posted up to date as also the taluk maps, and each Range officer possesses a copy of the latter. Copies of maps prepared by the Survey of India Party were received and distributed to the Range officers concerned. For reserves other than those surveyed by the Survey of India Party, correct maps are being prepared departmentally and copies thereof are being gradually supplied to Range officers. Besides these, maps for 65 reserves comprising an area of 25 square miles have been prepared to follow notifications under sections 4 and 16 of the Forest Act. Of the 103 square miles of the finally reserved area excluded from the Survey of India maps, final maps for 16 square miles remain to be prepared departmentally.

South Arcot.—The district forest reference map has been maintained and posted up to date. The range and reserve maps have also been maintained and the Range officers possess copies of these.

Salem.—The district and range maps have been maintained; maps for 71 reserves prepared by the Survy of India Party are available in the District Forest office. A commencement will be made to maintain separate maps for each reserve.

Trichinopoly.—The district as well as the range reference maps have been maintained. A map for the new Kulítalai range which includes the Cauvery south bank plantations is under preparation. Maps for the reserves in the Musiri and Perambalúr ranges are under preparation by the Survey of India Party. As regards reserves in the Udaiyárpálaiyam range, tracings taken

from the village maps are the only reserve maps in existence. A separate map for the Viramalai reserve in the Vyangudi range was prepared during the year; maps for reserves in the Vyampatti and Kulitalai ranges will be prepared as soon as the perambulation of the reserves by the Range officers are finished. Separate working circle maps were prepared during the year for the Manapparai hill reserved forests.

Tanjore.—The district as well as the range reference maps have been maintained. There are also separate maps for each reserve with topographical features and admitted rights indicated therein. Working plan maps are maintained for the Vettangudi reserved forest and the north, the south and Neidavasal casuarina plantations. The Vettangudi map is not quite complete and steps have been taken to remedy the defect.

Southern Circle.

Tinnevelly.—The district forest reference map has been posted up to 30th June 1898. Reduced lithographed copies of the ghât forest reserves were received during the year from the Survey office. Range officers have copies of Survey of India maps for reserves surveyed by that party.

Madura.—The District Forest-office and Range offices have been supplied with copies of District and Range Forest reference maps. New range maps were prepared during the year as the ranges were reconstituted. In the case of six reserves which were surveyed locally, maps have been fair-copied and will shortly be forwarded to the Survey office for reproduction.

North Coimbatore.—The office reference map is maintained. The topographical sheets are used as range reference maps and are being posted. There are no reserve maps, but the settlement map has been supplied to Range officers for the principal reserves to be used together with the topographical sheets as reserve maps.

South Coimbatore.—The district and range reference maps have been maintained and in the latter most of the particulars relating to five ranges have been entered on them. There are Survey of India maps for all the reserves, but some details have still to be entered therein. Separate maps for each of the working circles have also been maintained.

Nilgiris.—The district and range reference maps have been posted up to 30th June 1898. There are no reserve maps separately, but settlement maps for each village in the district are properly maintained, all the reserves having been distinctly shown therein. Working Circle maps are also maintained.

North Malabar.—The district reference map has been posted up to 30th June 1898. Separate maps are maintained for all the reserves in the district with the exception of two.

South Malabar.—The district reference map has been posted up to 30th June 1898. The range reference maps have not yet been prepared for want of the services of a draughtsman. There are separate maps for each reserve, and working circle maps have been prepared for areas for which working plans were prepared.

South Canara.—The district reference map has been maintained and range maps except that of Coondapoor are inaccurate and incomplete and nothing can be done before the publication of the taluk maps by the Survey Department. Maps for all reserves except Bhagimale are maintained. Forest maps continue to be prepared departmentally.

APPENDIX E.

STATEMENT showing Area of Reserved Forests for which final Maps have been prepared.

Districts.	Area of reserved forests.	Area of reserved forests for which final maps have been prepared.
	SQ. MILES.	SQ. MILES.
Ganjám	245	245
Vizagapatam	137	(a) ..
Gódávari	844	93
Kistna	706	415
Kurnool	1,962	..
Bellary	458	(b) 232
Anantapur	450	407
Cuddapah	1,651	1,565
Nellore	554	544
Chingleput	201	(c) 201
North Arcot	1,047	560
South Arcot	676	676
Salem	1,226	704
Trichinopoly	192	25
Tanjore	18	18
South Canara	166	147
North Malabar	157	1
South Malabar	40	39
The Nilgiris	358	(d) ..
North Coimbatore	1,054	16
South Coimbatore	654	654
Madura	567	560
Tinnevelly	412	407
Total ..	13,775	7,509

(a) There are maps for all reserves drawn by surveyor with plane table and compass, but none contain surveyed interior details. No explanation has been furnished by the Collector for the omission of the figure '14' entered in Appendix E to the report for 1896-97.

(b) Revised figure.

(c) These are only copies of maps attached to the final notifications, but are, however, only approximately correct wherever the boundaries go through unsurveyed areas.

(d) No final maps in accordance with the instructions contained in Board's Proceedings, Forest No. 37 of 1894, have been prepared.

Annual Form No. 48.

Forest Department, Madras Presidency.

Progress made in Working Plans during 1897–98.

District.	Areas for which working plans have been completed.		Areas for which working plans are being compiled.		Areas for which working plans have still to be taken in hand.	Total forest area as in Form No. 44.	Entire cost per square mile of working plans completed.	Remarks.
	At commencement of year.	During year.	At commencement of year.	Taken in hand during year.				
1	2	3	4	5	6	7	8	9
Northern Circle.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	RS.	
Ganjám	..	..	..	..	563	563	..	
Vizagapatam ..	..	..	..	..	413	413	..	
Gódávari ..	31	..	..	13	926	970	..	
Kistna ..	8	..	* 680	88	386	1,162	..	A sum of Rs. 185 was spent under this head during the year.
Kurnool ..	..	..	..	..	2,670	2,670	..	
Bellary	12	..	38	..	565	615	..	
Anantapur ..	1	..	..	..	511	512	..	
Total ..	52	..	718	101	6,034	6,905	..	
Central Circle.								
Cuddapah ..	3	..	..	..	2,397	2,400	..	Rs. 61 were spent during the year under this head.
Nellore	..	† ..	40	96	544	680	..	A sum of Rs. 165 was spent under this head during the year.
Chingleput ..	..	..	..	..	215	215	..	
North Arcot ..	..	..	..	...	1,129	1,129	..	
South Arcot ..	† ..	† ..	‡ 99	..	612	711	§ 52	Rs. 7 were spent during the year.
Salem	1	..	..	..	1,395	1,396	..	
Trichinopoly ..	34	(a)..	..	..	244	278	..	Rs. 27 were spent during the year under this head.
Tanjore	4	..	4	..	10	18	..	
Total ..	42	..	143	96	6,546	6,827	..	
Southern Circle.								
South Canara ..	1	..	..	..	1,122	1,123	..	
North Malabar ..	..	..	..	..	274	274	..	
South Malabar ..	34	..	24	..	270	328	99	
The Nilgiris ..	(b) 6	..	..	..	477	483	83	
North Coimbatore.	..	..	(c)..	..	1,619	1,619	..	
South Coimbatore.	10	..	..	7	640	657	Not known.	
Madura	..	..	12	..	601	613	..	
Tinnevelly ..	(d) 39	17	..	..	368	424	31	A sum of Rs. 915 was spent during the year.
Total ..	90	17	36	7	5,371	5,521	..	
Grand Total ..	184	17	897	204	17,951	19,253	..	

* This consists of 33 grazing working circles.

† The 40 square miles shown in this column in the previous year's return have been taken to column 4 in accordance with the instructions of the Government of India in its circular No. 12—245-1-F., 25th June 1897.

‡ Working scheme for 6 square miles and simple working plans based upon area for 93 square miles.

§ So far as known.

(*a*) The working plan for the upper anicut padugais was approved by the Board during the year but the area covered thereby has not been included in this statement as the area is not reserved under the Forest Act.

(*b*) Fuel plantations around Ootacamund and Coonoor.

(*c*) Rough working plans of a very preliminary nature were prepared for certain small areas by the ordinary district staff.

(*d*) The difference between this column and the total of columns 2 and 3 in the previous year's return is due to the fact that the unworkable extent of the plans was erroneously omitted in the latter.

ANNUAL.

Forest Department,

Communications

District.	New work undertaken during the year.					Total expenditure on new work.
	Buildings.		Roads and paths.			
	Description of building.	Expenditure incurred.	Road or path and object of the same.	Length of road or path.	Expenditure incurred.	
1	2	3	4	5	6	7
						Northern
Direction ..	....	RS. ..	(c) Others	MLS. F. ..	RS. 418	RS. 418
Ganjám ..	(c) Houses for subordinate establishments	88	(a) Cart roads	2 5	452	
			(b) Block lines or bridle-paths ..	3 5	132	
	Total, Ganjám ..	88	Total ..	6 2	584	672
Vizagapatam.	(b) Rest-houses	450	(a) Cart roads	10 0	373	
	(c) Houses for subordinate establishments	800				
	(d) Others	65				
	Total, Vizagapatam ..	1,315	Total ..	10 0	373	1,688
Gódávari ..	(b) Rest-houses	313	(a) Cart roads	6 1	1,895	
	(c) Houses for subordinate establishments	646				
	(d) Others	203				
	Total, Gódávari ..	1,162	Total ..	6 1	1,895	3,057
Kistna ..	(b) Rest-houses	1,828	(a) Cart roads	39 2	5,276	
			(b) Bridle-paths	1 1	943	
	Total, Kistna ..	1,828	Total ..	40 3	6,219	8,047
Kurnool ..	(c) Houses for subordinate establishments	229	(a) Cart roads	4 0	1,504	
	(d) Others	63				
	Total, Kurnool ..	292	Total ..	4 0	1,504	1,796
Bellary ..	....	..	....	..	..	
	Total, Bellary ..	..	Total ..	..	..	..
Anantapur ..	....	..	....	..	..	
	Total, Anantapur ..	..	Total ..	..	..	..
Total, Northern Circle.	(a) Head-quarter houses ..	..	(a) Cart roads	69 0	9,500	
	(b) Rest-houses	2,591	(b) Bridle-paths	4 6	1,075	
	(c) Houses for subordinate establishments	1,763	(c) Others	..	418	
	(d) Others	331				
	Total, Northern Circle ..	4,685	Total ..	73 6	10,993	15,678

† Rupees 55 have been deducted from the Collector's figures in order to make them agree with the Accountant-General's

FORM No. 49.

Madras Presidency.

and Buildings.

Repairs executed during the year.					
Buildings.		Roads and paths.			Total expended on repairs.
Nature of repairs.	Expenditure incurred.	Nature of repairs.	Length repaired.	Expenditure incurred.	
8	9	10	11	12	13
Circle.					
	RS.		MLS. FR.	RS.	RS.
(*a*) Head-quarter houses	85	....	..	..	85
(*b*) Rest-houses	486	(*a*) Cart roads	5 0	177	..
(*c*) Houses for subordinate establishments	1,360	(*b*) Bridle paths	2 1	9	..
			7 1	186	2,032
		Add A-VII (*c*) ..	..	..	28
Total ..	* 1,846	Total ..	..	..	2,060
(*b*) Rest-houses	753	(*a*) Cart roads	10 0	150	..
(*c*) Houses for subordinate establishments	256				
(*d*) Others	35				
	1,044		10 0	150	1,296
Add pay of watchers ..	102	Add A-VII (*c*) ..	..	..	37
Total ..	1,146	Total ..	..	..	1,333
(*b*) Rest-houses	433	(*c*) Others	..	25	..
(*c*) Houses for subordinate establishments	73				
(*d*) Others	156				
	662				
Add pay of watchers ..	938				
Total ..	1,600	Total ..	..	25	1,625
(*b*) Rest-houses	1,550	(*a*) Cart roads	18 0	96	..
(*c*) Houses for subordinate establishments	7		18 0	96	1,653
		Add A-VII (*c*) ..	..	..	130
Total ..	1,557	Total ..	..	..	1,783
(*a*) Head-quarter houses	2,001	(*a*) Cart roads	..	140	..
(*b*) Rest-houses	955		..	140	4,278
(*c*) Houses for subordinate establishments	† 602				
(*d*) Others	66	Add A-VII (*c*) ..	..	..	438
	3,624				
Add pay of watchers ..	514				
Total ..	4,138	Total ..	..	..	4,716
(*c*) Houses for subordinate establishments	32	(*a*) Cart roads	7 1	59	..
			7 1	59	91
		Add A-VII (*c*) ..	..	..	579
Total ..	32	Total ..	..	..	670
(*a*) Head-quarter houses	85		..	..	619
(*b*) Rest-houses	62				
(*c*) Houses for subordinate establishments	88				
	235				
Add pay of watchers ..	384				
Total ..	619	Total ..	..	..	619
(*a*) Head-quarter houses	2,171	(*a*) Cart roads	40 1	622	..
(*b*) Rest-houses	4,239	(*b*) Bridle-paths	2 1	9	..
(*c*) Houses for subordinate establishments	2,418	(*c*) Others	..	25	..
(*d*) Others	257				
	9,085		42 2	656	11,679
Add pay of watchers ..	1,938	Add A-VII (*c*) ..	..	..	* 1,212
Total ..	11,023	Total ..	..	..	12,891

* Includes pay of watchers.

audited figures under A-VII (*b*). The variation has not been explained by the Collector.

Communications

District.	New work undertaken during the year.					
	Buildings.		Roads and paths.			Total expenditure on new work.
	Description of building.	Expenditure incurred.	Road or path and object of the same.	Length of road or path.	Expenditure incurred.	
1	2	3	4	5	6	7
						Central
		Rs.		Mls. F.	Rs.	Rs.
Cuddapah ..	(c) Houses for subordinate establishments	39	(a) Cart roads	1 6	3,160	..
	(d) Others	196	(c) Others	9 0	22	..
	Total, Cuddapah ..	235	Total ..	10 6	3,182	3,417
Nellore ..	....	..	....	..	..	..
	Total, Nellore ..	..	Total ..	..	..	..
Chingleput ..	(b) Rest-houses	1,313	(a) Cart roads	5 0	268	..
	(c) Houses for subordinate establishments	23				
	(d) Others	48				
	Total, Chingleput ..	1,384	Total ..	5 0	268	1,652
North Arcot ..	(b) Rest-houses	705	(a) Cart roads	2 2	936	..
	(c) Houses for subordinate establishments	10				
	(d) Others	41				
	Total, North Arcot ..	756	Total ..	2 2	936	1,692
South Arcot ..	....	..	....	..	..	..
	Total, South Arcot ..	..	Total ..	..	..	..
Salem ..	(b) Rest-houses	113	(a) Cart roads	..	1,843	..
	(d) Others	152				
	Total, Salem ..	265	Total ..	..	1,843	2,108
Trichinopoly ..	(c) Houses for subordinate establishments	533	....	..	..	..
	Total, Trichinopoly ..	533	Total ..	..	..	533
Tanjore ..	(c) Houses for subordinate establishments	46	....	..	..	
	Total, Tanjore ..	46	Total ..	..	..	46
Total, Central Circle.	(b) Rest-houses	2,131	(a) Cart roads	9 0	6,207	
	(c) Houses for subordinate establishments	651	(c) Others	9 0	22	
	(d) Others	437				
	Total, Central Circle ..	3,219	Total ..	18 0	6,229	9,448

* Rs. 40 have been deducted from the Collector's figure so as to make it agree with the
† Rs. 13 added to Collector's figure so as to make it agree with the Accountant-General's
‡ Rs. 10 have been deducted from the Collector's figure to make it agree with the Accountant-

and Buildings—*cont.*

Repairs executed during the year.					
Buildings.		Roads and paths.			Total expended on repairs.
Nature of repairs.	Expenditure incurred.	Nature of repairs.	Length repaired.	Expenditure incurred.	
8	9	10	11	12	13
Circle.					
	RS.		MLS. FS.	RS.	RS.
(*b*) Rest-houses	* 531	....	..	..	815
(*d*) Others	13				
	544				
Add pay of watchers ..	271				
Total ..	815	Total ..	..	..	815
(*c*) Houses for subordinate establishments	196	....	..	..	310
(*d*) Others	114				
Total ..	† 310	Total ..	..	..	310
(*b*) Rest-houses	214	....	..	..	231
(*d*) Others	17	Add A-VII (*c*)	..	..	— 50
Total ..	231	Total ..	..	..	181
(*a*) Head-quarter houses	142	(*a*) Cart roads	11 3	584	..
(*b*) Rest-houses	844				
(*c*) Houses for subordinate establishments	220		11 3	584	2,496
	1,206	Add A-VII (*c*)	..	..	80
Add pay of watchers ..	706				
Total ..	1,912	Total ..	..	..	2,576
(*b*) Rest-houses	38	(*a*) Cart roads	..	197	..
(*c*) Houses for subordinate establishments	40				
	78				
Add pay of watchers ..	339				
Total ..	417	Total ..	..	197	614
(*b*) Rest-houses	‡ 851	....	..	..	939
(*c*) Houses for subordinate establishments	41	Add A-VII (*c*)	..	..	110
(*d*) Others	47				
Total ..	939	Total ..	..	..	1,049
(*b*) Rest-houses	50	....			50
		Add A-VII (*c*)	..	..	4
Total ..	50	Total ..	..	..	54
....	..	....			
Total ..	..	Total ..	..	..	..
(*a*) Head-quarter houses	142	(*a*) Cart roads	11 3	781	..
(*b*) Rest-houses	2,528				
(*c*) Houses for subordinate establishments	497				
(*d*) Others	191		11 3	781	5,455
	3,358	Add A-VII (*c*)	..	..	144
Add pay of watchers ..	1,316				
Total ..	4,674	Total ..	..	..	5,599

Accountant-General's audited figures under A–VII (*b*). The variation has not been explained.
audited figures under A. VII (*b*). The variation has not been explained.
General's audited figures. The variation has not been explained.

Communications

District.	New work undertaken during the year.					Total expenditure on new work.
	Buildings.		Roads and paths.			
	Description of building.	Expenditure incurred.	Road or path and object of the same.	Length of road or path.	Expenditure incurred.	
1	2	3	4	5	6	7
						Southern
South Canara.		..	....	MLS. FS. ..	RS. ..	RS. ..
	Total, South Canara ..	..	Total ..	..	..	..
North Malabar.	(*d*) Others	90	(*c*) Others	0 7	102	..
	Total, North Malabar ..	90	Total ..	0 7	102	192
South Malabar.	(*b*) Rest-houses	333	....	..	..	..
	(*c*) Houses for subordinate establishments	1,002				
	(*d*) Others	544				
	Total, South Malabar ..	1,879	Total ..	..	..	1,879
The Nilgiris..	(*b*) Rest-houses	670	(*a*) Cart roads	4 5	298	..
	(*c*) Houses for subordinate establishments	1,299				
	Total, The Nilgiris ..	1,969	Total ..	4 5	298	2,267
North Coimbatore.	(*b*) Rest-houses	1,175	(*a*) Cart roads	..	1,974	..
	(*c*) Houses for subordinate establishments	353	(*b*) Bridle-paths	..	212	..
	(*d*) Others	78				
	Total, North Coimbatore ..	1,606	Total ..	..	2,186	3,792
South Coimbatore.	(*b*) Rest-houses	19	(*a*) Cart roads	0 3	233	..
	(*c*) Houses for subordinate establishments	587	(*c*) Others	0 * 6	459	..
	(*d*) Others	4,448				
	Total, South Coimbatore ..	5,054	Total ..	1 1	692	5,746
Madura ..	(*b*) Rest-houses	734	....	..	..	..
	(*c*) Houses for subordinate establishments	474				
	Total, Madura ..	1,208	Total ..	..	..	1,208

* Tram line.

† Rs. 56 deducted from the Collector's figure to make it agree with the Accountant-General's audited figures. The variation has not been explained.

and Buildings—*cont.*

Repairs executed during the year.					
Buildings.		Roads and paths			Total expended on repairs.
Nature of repairs.	Expenditure incurred.	Nature of repairs.	Length repaired.	Expenditure incurred.	
8	9	10	11	12	13
Circle.					
	Rs.		MLS. FS.	Rs.	Rs.
(*c*) Houses for subordinate establishments.	182	(*a*) Cart roads	..	800	
(*d*) Others	47	(*c*) Others	..	43	
			..	843	1,072
		Add A-VII (*c*)	..	..	442
Total ..	229	Total ..	..	..	1,514
(*a*) Head-quarter houses	489	(*a*) Roads	57 5	796	
(*b*) Rest-houses	429				
(*c*) Houses for subordinate establishments.	376				
			57 5	796	2,090
		Add A-VII (*c*)	..	..	65
Total ..	† 1,294	Total ..	..	..	2,155
(*a*) Head-quarter houses	55	(*a*) Cart roads	5 4	291	
(*b*) Rest-houses	47	(*b*) Bridle-paths	3 0	23	
(*c*) Houses for subordinate establishments.	191	(*c*) Others	..	29	
(*d*) Others	341				
			8 4	343	977
		Add A-VII (*c*)	..	..	149
Total ..	634	Total ..	..	..	1,126
(*c*) Houses for subordinate establishments.	972	(*a*) Roads	73 0	1,048	
			73 0	1,048	2,020
		Add A-VII (*c*)	..	..	180
Total ..	972	Total ..	..	..	2,200
(*b*) Rest-houses	565	(*a*) Cart roads	27 5	2,308	
(*c*) Houses for subordinate establishments.	184				
(*d*) Others	79				
	828				
Add pay of watchers ..	397				
Total ..	1,225	Total ..	27 5	2,308	3,533
(*b*) Rest-houses	52	(*a*) Cart roads	‡ 8 4	320	
(*c*) Houses for subordinate establishments.	227	(*b*) Bridle-paths	1 0	156	
(*d*) Others	211	(*c*) Others	..	91	
			9 4	567	1,057
		Add A-VII (*c*)	..	..	3,289
Total ..	490	Total ..	..	..	4,346
(*b*) Rest-houses	418	(*c*) Others	..	§ 52	
(*c*) Houses for subordinate establishments.	341				
(*d*) Others	54				
	813		..	52	1,188
Add pay of watchers ..	323	Add A-VII (*c*)	..	..	129
Total ..	1,136	Total ..	..	..	1,317

‡ Includes 6 miles 6 furlongs of tram road.

§ Pay of road watchers, &c.

Communications

Districts.	New work undertaken during the year.					
	Buildings.		Roads and paths.			Total expenditure on new works.
	Description of building.	Expenditure incurred.	Road or path and object of the same.	Length of road or path.	Expenditure incurred.	
1	2	3	4	5	6	7
						Southern
		RS.		MLS. FS.	RS.	RS.
Tinnevelly ..	(*b*) Rest-houses	359	(*a*) Cart roads	5 7	984	
	(*c*) Houses for subordinate establishments.	1,050	(*b*) Bridle-paths	0 5	985	
	(*d*) Others	50	(*c*) Others	..	866	
	Total, Tinnevelly ..	1,459	Total ..	6 4	2,835	4,294
Total, Southern Circle.	(*b*) Rest-houses	3,290	(*a*) Cart roads	10 7	3,489	
	(*c*) Houses for subordinate establishments.	4,765	(*b*) Bridle-paths	0 5	1,197	
	(*d*) Others	5,210	(*c*) Others	1 5	1,427	
	Total, Southern Circle ..	13,265	Total ..	13 1	6,113	19,378
Grand Total, Presidency.	(*b*) Rest-houses	8,012	(*a*) Cart roads	88 7	19,196	
	(*c*) Houses for subordinate establishments.	7,179	(*b*) Bridle-paths	5 3	2,272	
	(*d*) Others	5,978	(*c*) Others	10 5	1,867	
	Total, Presidency ..	21,169	Total ..	104 7	23,335	44,504

and Buildings—*cont.*

Repairs executed during the year.					
Buildings.		Roads and paths.			Total expended on repairs.
Nature of repairs.	Expenditure incurred.	Nature of repairs.	Length repaired.	Expenditure incurred.	
8	9	10	11	12	13
Circle—cont.					
	RS.		MLS. FS.	RS.	RS.
(*b*) Rest-houses	1,292	(*a*) Cart roads	71 0	2,071	
(*c*) Houses for subordinate establishments.	48	(*b*) Bridle-paths	22 1	863	
(*d*) Others	19	(*c*) Others	2 0	26	
			95 1	2,960	4,319
		Add A-VII (*c*)	..	..	173
Total ..	1,359	Total ..	..	..	4,492
(*a*) Head-quarter houses ..	544	(*a*) Cart roads	243 2	7,634	
(*b*) Rest-houses	2,803	(*b*) Bridle-paths	26 1	1,042	
(*c*) Houses for subordinate establishments.	2,521	(*c*) Others	2 0	241	
(*d*) Others	751				
	6,619		271 3	8,917	16,256
Add pay of watchers ..	720	Add A-VII (*c*)	..	..	4,427
Total ..	7,339	Total ..	..	.	20,683
(*a*) Head-quarter houses	2,857	(*a*) Cart roads	294 6	9,037	
(*b*) Rest-houses	9,570	(*b*) Bridle-paths	28 2	1,051	
(*c*) Houses for subordinate establishments.	5,436	(*c*) Others	2 0	266	
(*d*) Others	1,199				
	19,062		325 0	10,354	33,390
Add pay of watchers ..	3,974	Add A-VII (*c*)	..	..	5,783
Total ..	23,036	Total ..	..	..	39,173

ANNUAL FORM No. 65.

Tramway Statement.

STATEMENT showing the results of transport of wood by tramway, compared with transport by country carts.

I.—*Nellore District.*

(i) Sríharikóta Range.

Capital Account.

—	1896-97.	1897-98.	—	1896-97.	1897-98.
Dr.	RS.	RS.	*Cr.*	RS.	RS.
To balance from the previous year	18,380	17,277	By depreciation at 6 per cent.	1,103	1,037
			,, balance of stock	17,277	16,240
Total ..	18,380	17,277	Total ..	18,380	17,277

Revenue Account.

—	1896-97.	1897-98.	—	1896-97.	1897-98.
Dr.	RS.	RS.	*Cr.*	RS.	RS.
To working expenses	499	734	By balance written off ..	2,719	2,684
,, road-making and repairs ..	382	222			
,, interest at 4 per cent. ..	735	691			
,, depreciation at 6 per cent. ..	1,103	1,037			
Total ..	2,719	2,684	Total ..	2,719	2,684

—	1896-97.			1897-98.		
	Number of tons carried.	Miles carried.	Total ton-miles.	Number of tons of fuel carried.	Number of miles carried.	Total ton-miles.
Work done	3,530	2½	8,825	3,728	5¾	21,436

—	1896-97.			1897-98.		
	Number of ton-miles.	Amount.	Rate per ton-mile.	Number of ton-miles.	Amount.	Rate per ton-mile.
		RS.	RS. A. P.		RS.	RS. A. P.
Actual charge for carrying	8,825	2,719	0 4 11	21,436	2,684	0 2 0
Estimated cost of carting	8,825	2,758	0 5 0	21,436	4,832	0 3 7

ABSTRACT.

Year.	Profit.	Loss.
	RS.	RS.
1889-90 to 1891-92	..	2,596
1892-93 to 1895-96	1,848	..
1896-97	39	..
1897-98	2,155	..
Total ..	4,042	2,596
Net gain ..	1,446	

Statement showing the results of transport of wood by tramway, &c.—*cont.*

(ii) Casuarina Plantation Range.

Capital Account.

—		1896-97.	1897-98.	—		1896-97.	1897-98.
	Dr.	Rs.	Rs.		*Cr.*	Rs.	Rs.
To balance from the previous year ..		13,313	12,515	By depreciation at 6 per cent. ..		798	751
				„ balance of stock		12,515	11,764
Total ..		13,313	12,515	Total ..		13,313	12,515

Revenue Account.

—		1896-97.	1897-98.	—		1896-97.	1897-98
	Dr.	Rs.	Rs.		*Cr.*	Rs.	Rs.
To working expenses		468	710	By balance written off		1,798	1,962
„ interest at 4 per cent.		532	501				
„ depreciation at 6 per cent. ..		798	751				
Total ..		1,798	1,962	Total ..		1,798	1,962

—	1896-97.			1897-98.		
	Number of tons of wood carried.	Number of miles carried.	Total ton-miles.	Number of tons of wood carried.	Number of miles carried.	Total ton-miles.
Work done	1,099	4	4,396	1,705½	4	6,822

—	1896-97.			1897-98.		
	Number of ton-miles.	Amount.	Rate per ton per mile.	Number of ton-miles.	Amount.	Rate per ton per mile.
		Rs.	Rs. A. P.		Rs.	Rs. A. P.
Actual charge for carrying	4,396	1,798	0 6 6	6,822	1,962	0 4 7
Estimated cost of carting	4,396	4,396	1 0 0	6,822	5,969	0 14 0

ABSTRACT.

Year.	Profit.	Loss.
	Rs.	Rs.
1885-86 to 1886-87	3,681	..
1887-88	..	570
1888-89	2,999	..
1889-90	..	165
1890-91 to 1894-95	14,778	..
1895-96 to 1896-97	5,560	..
1897-98	4,007	..
Total ..	31,025	735
Net gain ..	30,290	

Statement showing the results of transport of wood by tramway, &c.—*cont.*

II. *Cuddapah District.*

Capital Account.

—		1896-97.	1897-98.	—		1896-97.	1897-98.
	Dr.	RS.	RS.		*Cr.*	RS.	RS.
To balance from previous year ..		10,905	10,251	By depreciation at 6 per cent. ..		654	615
				,, balance of stock		10,251	9,636
Total ..		10,905	10,251	Total ..		10,905	10,251

Revenue Account.

—		1896-97.	1897-98.	—		1896-97.	1897-98.
	Dr.	RS.	RS.		*Cr.*	RS.	RS.
To working expenses		62	57	By revenue		..	246
,, road repairs		7	8	,, balance written off		1,248	844
,, depreciation		654	615				
,, interest at 4 per cent.		436	410				
,, Tramway repairs		89	..				
Total ..		1,248	1,090	Total ..		1,248	1,090

—	1896-97.			1897-98.		
	Number of tons of fuel carried.	Number of miles carried.	Total ton-miles.	Number of tons of fuel carried.	Number of miles carried.	Total ton-miles.
Work done	547	2	1,094	320	1¼	400

—	1896-97.			1897-98.		
	Total number of ton-miles.	Total cost of carrying.	Rate per ton-mile.	Total number of ton-miles.	Total cost of carrying.	Rate per ton-mile.
		RS.	RS. A. P.		RS.	RS. A. P.
Actual charges for carrying	1,094	1,248	1 2 3	400	1,090	2 11 7
Estimated cost by carts	1,094	1,094	1 0 0	400	400	* 1 0 0

* The estimated cost by carts is based on the number of trips which one cart can make in one day carrying half a ton.

ABSTRACT OF PROFIT AND LOSS.

Year.	Profit.	Loss.
	RS.	RS.
1892-93 to 1896-97	..	3,897
1897-98	..	690
Net Loss		4,587

Statement showing the results of transport of wood by tramway, &c.—*cont.*

III. *South Coimbatore District.*

Capital Account.

—		1896-97.	1897-98.	—		1896-97.	1897-98.
	Dr.	RS.	RS.		*Cr.*	RS.	RS.
To balance from previous year	..	47,244	45,085	By depreciation at 6 per cent.	..	2,878	2,728
,, extension of tram line ..	..	669	388	,, balance of stock . ..	..	45,085	42,745
,, construction of temporary sheds for storing tram materials.		50	..				
Total	..	47,963	45,473	Total	..	47,963	45,473

Revenue Account.

—		1896-97.	1897-98.	—		1896-97.	1897-98.
	Dr.	RS.	RS.		*Cr.*	RS.	RS.
To working expenses ..	..	3,834	2,871	By balance written off ..	..	8,873	7,597
,, depreciation at 6 per cent.	..	2,878	2,728				
,, interest at 4 per cent. ..	..	1,918	1,819				
,, repairs to roadway ..	..	100	44				
,, repairs to tram trucks ..	..	143	135				
Total	..	8,873	7,597	Total	..	8,873	7,597

—	1896-97.			1897-98.		
	Number of tons of timber carried.	Number of miles carried.	Total ton-miles.	Number of tons of timber carried.	Number of miles carried.	Total ton-miles.
Work done	1,419 tons (4,539 $\frac{3}{25}$ candies or 56,739 cubic feet.)	$4\frac{5}{8}$	6,563	1,022 tons (3,270$\frac{3}{5}$ candies or 40,880 cubic feet.)	$5\frac{1}{2}$	5,621

—	Total number of ton-miles.	Total amount spent.	Rate per ton-mile.	Total number of ton-miles.	Total amount spent.	Rate per ton-mile.
		RS.	RS. A. P.		RS.	RS. A. P.
Actual charges for carrying ..	6,563	8,873	1 5 6	5,621	7,597	1 5 7
Estimated cost by carts	6,563	6,836	1 0 8	5,621	5,855	1 0 8
Annual cost of maintaining cart road before construction of tramways now saved	..	1,200	..	..	1,200	..
Total ..	6,563	8,036	..	5,621	7,055	..

ABSTRACT OF LOSS.

Year.	Loss.
	RS.
1889-90 to 1896-97	22,973
1897-98	542
Net Loss ..	23,515

N.B.—The rate paid for carting from Sungam to Venthamudi, a distance of 6 miles prior to the construction of the tramway, was Rs. 2 per candy of 12½ cubic feet. This comes to slightly more than 5 pies per cubic foot per mile, or Rs. 1-0-8 per ton mile, a ton being taken as equivalent to 40 cubic feet. Hence the estimated cost by carts has been calculated at the rate of Rs. 1-0-8 per ton-mile.

ANNUAL FORM No. 50.

Forest Department, Madras Presidency.

PROSECUTIONS for breaches of Forest Rules during 1897-98.

	District.	Cases pending from 1896-97.	NEW CASES OF THE YEAR.					Total cases.	DISPOSED OF DURING THE YEAR.										Cases pending at close of year.
			Injury to forest by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.		Convictions.		Acquittals.		Compounded.		Withdrawn.		Total.		
									Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	
1		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Northern Circle.	Ganjám	38	1	269	65	21	356	394	162	457	36	130	88	191	35	83	321	861	73
	Vizagapatam	90	1	556	120	81	758	848	318	815	20	105	256	571	149	381	743	1,872	105
	Gódávari	152	1	329	205	78	613	765	172	498	28	111	372	862	151	358	723	1,829	42
	Kistna	84	5	336	499	52	892	976	215	805	22	141	479	2,065	200	443	916	3,454	60
	Kurnool	226	2	755	243	53	1,053	1,279	294	476	57	159	580	1,913	95	231	1,026	2,779	253
	Bellary	82	7	257	93	70	427	509	48	99	9	17	329	1,003	45	160	431	1,279	78
	Anantapur	38	..	170	159	14	343	381	147	523	22	128	131	485	27	77	327	1,213	54
	Total ..	710	17	2,672	1,384	369	4,442	5,152	1,356	3,673	194	791	2,235	7,090	702	1,733	4,487	13,287	665
Central Circle.	Cuddapah	103	7	537	469	22	1,035	1,138	268	652	42	222	450	1,145	277	857	1,037	2,876	101
	Nellore	49	1	134	180	29	344	393	241	592	28	99	58	118	12	30	339	839	54
	Chingleput	23	..	245	177	30	452	475	87	201	10	68	290	830	32	65	419	1,164	56
	North Arcot ..	154	3	605	642	32	1,282	1,436	119	319	32	116	982	1,667	120	250	1,253	2,352	183
	South Arcot	175	37	1,186	1,132	209	2,564	2,739	470	1,332	89	363	1,400	3,793	466	767	2,425	6,255	314
	Salem	92	5	729	640	29	1,403	1,495	243	794	71	302	775	2,036	171	495	1,260	3,627	235
	Trichinopoly ..	81	..	246	556	21	823	904	247	875	27	153	280	678	244	620	798	2,326	106
	Tanjore	5	..	28	29	5	62	67	16	43	..	* 3	20	53	26	75	62	174	5
	Total ..	682	53	3,710	3,825	377	7,965	8,647	1,691	4,808	299	1,326	4,255	10,320	1,348	3,159	7,593	19,613	1,054
Southern Circle.	South Canara † ..	134	7	508	17	105	637	771	262	434	65	173	307	445	36	43	670	1,095	101
	North Malabar ..	5	1	1	4	5	11	16	3	3	..	..	4	6	2	4	9	13	7
	South Malabar ..	5	..	24	..	1	25	30	9	32	1	2	14	49	3	8	27	91	3
	The Nilgiris	18	1	24	51	53	129	147	52	128	2	2	29	120	6	10	89	260	58
	North Coimbatore ..	43	1	153	201	29	384	427	128	381	43	219	151	453	70	264	392	1,317	35
	South Coimbatore ..	24	4	259	109	20	392	416	34	91	4	16	232	477	56	150	326	734	90
	Madura	105	28	242	233	24	527	632	268	705	35	157	128	444	89	154	520	1,460	112
	Tinnevelly	50	..	314	147	20	481	531	21	106	7	27	339	1,055	108	436	475	1,624	56
	Total ..	384	42	1,525	762	257	2,586	2,970	777	1,880	157	596	1,204	3,049	370	1,069	2,508	6,594	462
Grand Total, Presidency ..		1,776	112	7,907	5,971	1,003	14,993	16,769	3,824	10,361	650	2,713	7,694	20,459	2,420	5,961	14,588	39,494	2,181

* Concerned in cases convicted.

† Excludes 1,896 petty offences committed by 2,314 persons let off with a warning.

Annual Form No. 51.

Forest Department, Madras Presidency.

Area of Forest Tracts protected from Fire during 1897–98.

District.	Ranges or taluks.	Area actually protected up to 30th June 1897.	During dry season of 1897–98. Area attempted to be protected.	Fires.	Actually protected.	Cost during the season.	Remarks.
1	2	3	4	5	6	7	8
	Northern Circle.	ACS.	ACS.	ACS.	ACS.	RS.	
Ganjám ..	Kukuluba	41,537	42,547	410	42,137	268	
	Mojjaguda	56,767	58,242	1,585	56,657	362	
	Surada	9,450	7,850	1,200	6,650	120	
	Buguda	10,120	9,840	600	9,240	186	
	Berhampur	15,492	14,120	12	14,108	105	
	Total, General, Ganjám.	133,316	132,599	3,807	128,792	1,041	
Vizagapatam.	....	28,306	74,966	1,496	73,470	456	
Gódávari— Special ..	Bhadráchalam	13,871	13,912	73	13,839	485	
	Marrigudem	28,756	29,300	2,655	26,645	702	
	Rékapalle	9,410	9,500	1,706	7,794	197	
	Total, Special, Gódávari.	52,037	52,712	4,434	48,278	1,384	
General ..	Rajahmundry	47,915	45,015	55	44,960	203	
	Peddápur	2,150	2,150	100	2,050	38	
	Yernagudem	17,540	22,050	240	21,810	287	
	Ellore	17,340	17,340	700	16,640	257	
	Total, General, Gódávari.	84,945	86,555	1,095	85,460	785	
	Total, Special and General, Gódávari.	136,982	139,267	5,529	133,738	2,169	
Kistna— Special ..	....	83,662	85,290	151	85,139	301	
General ..	....	80,346	..	..	..	..	
	Total, Special and General, Kistna.	164,008	85,290	151	85,139	301	
Kurnool ..	....	76,824	77,307	28,950	48,357	2,456	
Bellary— Special ..	Sandúr	39,091	40,000	400	39,600	1,443	
	Kúdligi	19,000	18,163	..	18,163	429	
	Bellary	1,066	1,066	..	1,066	(*a*) ..	(*a*) No expenditure was incurred as all grass was removed by purchasers.
	Total, Special, Bellary ..	59,157	59,229	400	58,829	1,872 — * 29	
General ..	Sandúr	12,000	..	..	..	..	
	Adóni	1,329	1,574	70	1,504	(*b*) ..	(*b*) A small expenditure was incurred but the amount was not paid during the year.
	Total, General, Bellary..	13,329	1,574	70	1,504	..	
	Total, Special and General, Bellary.	72,486	60,803	470	60,333	1,843	
Anantapur ..	....	121,415	113,757	596	113,161	1,379	
	Total, Special, Northern Circle.	194,856	197,231	4,985	192,246	3,528	
	Total, General, Northern Circle.	532,481	486,758	36,014	450,744	6,117	
	Grand Total, Northern Circle.	727,337	683,989	40,999	642,990	9,645	
	Central Circle.						
Cuddapah— Special ..	....	..	† 7,000	1,450	5,550	784	
General ..	....	409,870	415,380	21,206	394,174	3,870 — * 13	
	Total, Special and General, Cuddapah.	409,870	422,380	22,656	399,724	4,641	

* Added or deducted as per Accountant-General's audited figures.

† This area was shown under general last year.

Area of Forest Tracts protected from Fire during 1897-98—*cont.*

District.	Ranges or taluks.	Area actually protected up to 30th June 1897.	During dry season of 1897-98.			Cost during the season.	Remarks.
			Area attempted to be protected.	Fires.	Actually protected.		
1	2	3	4	5	6	7	8
	Central Circle—cont.	ACS.	ACS.	ACS.	ACS.	RS.	
Nellore ..	....	115,720	115,720	2,585	113,135	668	
Chingleput—Special ..	....	23,473	23,873	72	23,801	394	
North Arcot—							
Special ..	Chittoor	47,789	50,256	92	50,164	354	
	Chendragiri	97,503	104,252	5,167	99,085	1,092	
	Palmanér	65,663	66,839	2,260	64,579	582	
	Gudiyáttam	80,508	80,452	2,350	78,102	458	
	Vellore	107,192	113,975	714	113,261	1,174	
	Polur	126,494	126,714	6,993	119,721	1,099	
	Arcot-Wallajah	9,036	10,776	219	10,557	289	
	Total, Special, North Arcot.	534,185	553,264	17,795	535,469	5,048	
General ..	Chittoor	33,940	30,228	..	30,228	..	
	Chandragiri	10,850	5,570	..	5,570	..	
	Palmanér	52,978	52,978	74	52,904	..	
	Gudiyáttam	14,685	14,685	..	14,685	..	
	Vellore	7,523	1,002	..	1,002	..	
	Polur	43,426	43,426	1,206	42,220	..	
	Wallajah	3,078	3,078	..	3,078	..	
	Wandiwash	10,801	10,759	..	10,759	..	
	Arcot	7,329	7,326	..	7,326	..	
	Total, General, North Arcot.	* 184,610	169,052	1,280	167,772	..	* Of these 14,093 acres were transferred to special protection during the year 1897-98.
	Total, Special and General, North Arcot.	718,795	722,316	19,075	703,241	5,048	
South Arcot—							
Special ..	Tiruvannámalai	51,510	9,725	90	9,635	208	
	Kallakurchi	14,338	14,338	150	14,188	100	
	Total, Special, South Arcot.	65,848	24,063	240	23,823	308	
General ..	....	30,290	79,389	4,346	75,043	353	
	Total, Special and General, South Arcot.	96,138	103,452	4,586	98,866	661	
Salem ..	Salem, West	10,500	9,419	..	9,419	519	
	Uttankarai	13,628	5,278	..	5,278	187	
	Tiruppattúr	11,762	14,155	751	13,404	534	
	Krishnagiri	6,800	7,327	..	7,327	247	
	Hosúr	..	13,172	400	12,772	233	
	Salem, East	..	2,482	140	2,342	86	
	Total, Salem ..	42,690	51,833	1,291	50,542	1,806 + † 12	† Added or deducted as per Accountant-General's audited figures.
Trichinopoly.	Musiri	49,981	50,060	65	49,995	105	
	Perambalúr	32,600	32,600	25	32,575	..	
	Total, Trichinopoly ..	82,581	82,660	90	82,570	105	
Tanjore ..	....	..	..	..	..	..	Agreements have been entered into with the Malayalies for keeping lines clear and preserving the forests from fire on payment to them of lump sums at certain rates.
	Total, Special, Central Circle.	623,506	608,200	19,557	588,643	6,534	
	Total, General, Central Circle.	865,761	914,034	30,798	883,286	6,801	
	Grand Total, Central Circle.	1,489,267	1,522,234	50,355	1,471,879	13,335	

Area of Forest Tracts protected from Fire during 1897–98—*cont.*

District.	Ranges or taluks.	Area actually protected up to 30th June 1897.	During dry season of 1897–98. Area attempted to be protected.	Fires.	Actually protected.	Cost during the season.	Remarks.
1	2	3	4	5	6	7	8
	Southern Circle.	ACS.	ACS.	ACS.	ACS.	RS.	
South Canara.	Coondapoor range ..	16,248	20,644	144	20,500	252	10,350 acres of the area protected last year were not protected this year and new areas to the extent of 21,807 acres were brought under protection.
	Udipi range	11,125	13,890	60	13,830	272	
	Mangalore range.. ..	7,175	4,916	43	4,873	80	
	Uppinangadi range ..	4,605	4,593	48	4,545	82	
	Puttur range	5,256	11,823	50	11,773	134	
	Total, South Canara ..	44,409	55,866	345	55,521	820	
North Malabar—Special.	Begur range	65,512	1,972	10	1,962	..	* Teak and bamboo plantations.
	Chedaleth range ..		6,025	60	5,965	..	
	Kanoth		* 224	..	224	34	
	Total, Special, North Malabar.	65,512	8,221	70	8,151	34	
General ..	Begur	..	18,868	13,394	5,474	1,194	† Added or deducted as per Accountant-General's audited figures.
	Chedaleth	..	43,460	43,460	..	† — 20	
	Total, General, North Malabar.	..	62,328	56,854	5,474	1,174	
	Total, Special and General, North Malabar.	65,512	70,549	56,924	13,625	1,208	
South Malabar—Special..	Nilambur range	4,685	4,685	10	4,675	878	
	Amarampalam range ..	80,779	80,779	..	80,779	512	
	Palghat range	18,344	18,344	..	18,344	963	
	Total, Special, South Malabar.	103,808	103,808	10	103,798	2,353	
The Nilgiris.	Special	10,089	12,097	207	11,890	1,730	
	General	71,740	74,256	..	74,256	153	
	Total, The Nilgiris ..	81,829	86,353	207	86,146	1,883	
North Coimbatore—Special..	Satyamangalam range ..	5,648	2,140	42	2,098	79	‡ Three acres which were burnt in 1896 were again burnt this year. § All sandalwood compartments.
	Kollegal range	4,691	4,677	‡ 483	4,194	286	
	Talamalai range	332	2,043	..	2,043	131	
	Total, Special, North Coimbatore.	10,671	§ 8,860	525	8,335	496	
South Coimbatore—Special..	Tunacadavu range ..	24,000	24,000	12,800	11,200	1,021	
	Pollachi range	9,775	9,775	53	9,722	394	
	Udamalpet range ..	485	485	..	485	135	
	Méttupálaiyam range ..	230	230	..	230	29	
	Bolampatti range ..	23,366	23,433	698	22,735	984	
	Total, Special, South Coimbatore.	57,856	57,923	13,551	44,372	2,563	
General..	Tunacadavu	38,843	38,843	..	38,843	*Nil.*	
	Pollachi	72,543	72,543	..	72,543		
	Udamalpet	140,794	141,544	3,550	137,994		
	Méttupálaiyam	49,370	49,370	15	49,355		
	Bolampatti	56,629	58,069	1,700	56,369		
	Total, General, South Coimbatore.	358,179	360,369	5,265	355,104	..	
	Total, Special and General, South Coimbatore.	416,035	418,292	18,816	399,476	2,563	
Madura ..	Special	180,880	180,827	41,767	139,060	2,782	
	General	36,412	35,003	46	34,957	162	
	Total, Madura ..	217,292	215,830	41,813	174,017	2,944	

Area of Forest Tracts protected from Fire during 1897-98—*cont.*

District.	Ranges or taluks.	Area actually protected up to 30th June 1897.	During dry season of 1897-98.			Cost during the season.	Remarks.
			Area attempted to be protected.	Fires.	Actually protected.		
1	2	3	4	5	6	7	8
	Southern Circle—cont.	ACS.	ACS.	ACS.	ACS.	RS.	
Tinnevelly—Special ..	Ambásamudram taluk ..	9,203	9,225	72	9,153	4	
	Nángunéri taluk	2,918	5,456	..	5,456	65	
	Tenkási taluk	1,715	4,235	484	3,751	21	
	Sankaranayinárkóyil taluk	4,996	6,155	..	6,155	..	
	Srívilliputtúr taluk ..	7,705	7,706	10	7,696	50	
	Total, Special, Tinnevelly.	26,537	32,777	566	32,211	140	
General ..	Ambásamudram taluk ..	78,272	81,034	1,075	79,959	95	
	Nángunéri taluk.. ..	47,999	48,199	1,025	47,174	357	
	Tenkási taluk	13,269	20,624	1,410	19,214	101	
	Sankaranayinárkóyil taluk	21,284	21,534	755	20,779	166	
	Srívilliputtúr taluk ..	34,664	35,264	551	34,713	452	
	Total, General, Tinnevelly.	201,488	206,655	4,816	201,839	1,171 — * 43	* Added or deducted as per Accountant-General's audited figures.
	Total, Special and General, Tinnevelly.	228,025	239,432	5,382	234,050	1,268	
	Total, Southern Circle—						
	Special	455,353	404,513	56,696	347,817	10,098	
	General	712,228	794,477	67,326	727,151	3,437	
	Grand Total, Southern Circle.	1,167,581	1,198,990	124,022	1,074,968	13,535	
	Total, Presidency—						
	Special	1,273,715	1,209,944	81,238	1,128,706	20,160	
	General	2,110,470	2,195,269	134,138	2,061,131	16,355	
	Grand Total, Presidency.	3,384,185	3,405,213	215,376	3,189,837	36,515	

N.B.—Where Collectors have not reported the figures separately for special areas, they are shown under general. Where Collectors have not reported the figures separately for ranges or taluks, they are shown for the whole districts.

ANNUAL FORM No. 52.

Forest Department, Madras Presidency.

AREA closed and open to Grazing during 1897–98.

District.	Total forest area as per Form No. 44.	Area in square miles.				
		Closed to all animals.		Closed to goats and sheep.		Open to all animals.
		Whole year.	Part of year.	Whole year.	Part of year.	Whole year.
1	2	3	4	5	6	7
Northern Circle.	SQ. MLS.					
Ganjám	563	123	..	(a) 563	..	..
Vizagapatam	413	1	..	138	..	275
Gódávari	970	1	..	(b) 970	..	..
Kistna	1,162	132	..	920	..	242
Kurnool	2,670	..	(c) 121	..	(c) 2,392 (d)	278
Bellary	615	43	92	43	120	(e) 452
Anantapur	512	..	19	512	..	..
Total ..	6,905	300	232	3,146	2,512	1,247
Central Circle.						
Cuddapah	2,400	(f) 7	(f) 1	..	2,339	(g) 61
Nellore	680	7	..	645	..	(h) 35
Chingleput	215	35	..	197	..	18
North Arcot	1,129	98	..	(a) 1,117	..	12
South Arcot	711	14	..	(a) 711	..	..
Salem	1,396	63	..	(i) 1,396	..	..
Trichinopoly	278	59	..	(a) 278	..	..
Tanjore	18	1	..	(k) 18	..	..
Total ..	6,827	284	1	4,362	2,339	126
Southern Circle.						
South Canara	1,123	16	..	(a) 1,123	..	..
Malabar, North	274	52	..	(a) 274	..	..
Do. South	328	328	..	(l) 328	..	..
The Nilgiris	483	12	..	(a) 483	..	..
Coimbatore, North	1,619	215	..	(a) 1,619 (m)	..	..
Do. South	657	265	..	(a) 657	..	..
Madura	613	29	..	(a) 613	..	..
Tinnevelly	424	291	..	(a) 424 (n)	..	..
Total ..	5,521	1,208	..	5,521	..	..
Grand Total, Presidency ..	19,253	1,792	233	13,029	4,851	1,373

(a) Closed to goats only.
(b) In 511 square miles sheep were also not admitted.
(c) Closed for 10 months during the year. During July and August free-grazing was allowed over all the forests.
(d) In 2 square miles goats were admitted.
(e) During the first quarter of the year 572 square miles were open to free-grazing.
(f) Plantations or areas in which located fellings have been conducted.
(g) Goats were admitted in this area.
(h) Reserved for goats.
(i) Closed to goats only. In 15 square miles of this area goat browsing was allowed from November 1897.
(k) Open to sheep. Of this, 168 acres were also open to goats.
(l) No demand for grazing.
(m) In 15 square miles sheep were also not admitted.
(n) In 1 square mile sheep were also not admitted.

ANNUAL FORM No. 53.

Forest Department, Madras Presidency.

AREA of Plantations, 1897–98.

District.	Number of plantations on 30th June 1898.	Area in acres.				Receipts	Charges	Remarks.
		On 1st July 1897.	Added during the year.	Excluded during the year.	Area on 30th June 1898.	Of the year.		
1	2	3	4	5	6	7	8	9
REGULAR PLANTATIONS.		ACS.	ACS.	ACS.	ACS.	RS.	RS.	
Northern Circle.								
Ganjám	1	304	44	..	348	..	2,544	(*a*) By rectification.
Gódávari	2	476	..	(*a*) 55	421	1,163	(*b*) 758	(*b*) Includes cost of establishment.
Kistna	(*c*) 19	1,484	222	4	1,702	2,302	3,071	(*c*) One was abandoned during the year and 2 were newly added.
Total ..	22	2,264	266	59	2,471	3,465	6,373	
Central Circle.								
Nellore	2	(*a*) 3,213	..	(*d*)3,194	19	9,305	1,670	(*d*) Included in reserved forest and so omitted.
Chingleput	2	352	..	(*d*) 263 (*e*)+ 3	86	300	284	(*e*) Transferred to topes.
North Arcot	6	1,048	..	..	1,048	3,435	2,630	(*f*) Municipal tax.
South Arcot	13	8,618	..	..	8,618	6,459	2,824 (*f*) 253	
Tanjore	4	539	..	..	539	2,809	2,012	
Total ..	27	13,770	..	3,460	10,310	22,308	9,673	
Southern Circle.								
South Canara	3	183	..	..	183	1,243	100	
North Malabar	11	(*a*) 684	50	(*g*) 407	327	..	591 (*h*)—55	(*g*) Failure.
South do.	18	4,560	80	..	4,640	56,111	7,511	(*h*) Added or deducted as per Accountant-General's audited figures under A. VIII (*e*).
The Nilgiris	22	1,610	..	..	1,610	10,167	404	
South Coimbatore ..	4	28	..	..	28	..	..	
Madura	6	212	40	19	233	..	817	
Total ..	64	7,277	170	426	7,021	67,521	9,368	
Grand Total, Regular Plantations ..	113	23,311	436	3,945	19,802	93,294	25,414	

ANNUAL FORM No. 53—*cont.*

Forest Department, Madras Presidency.

AREA of Plantations, 1897–98.

District.	Area in acres.				Receipts	Charges	Remarks.
	On 1st July 1897.	Added during the year.	Excluded during the year.	Area on 30th June 1898.	Of the year.		
1	2	3	4	5	6	7	8
CULTURAL OPERATIONS.					RS.	RS.	
Northern Circle.							
Direction	..	..	..	..	..	272	
Ganjám	404	..	..	404	27	178	
Vizagapatam	..	..	..	..	..	(*a*) + 123	(*a*) Added or deducted as per Accountant - General's audited figures under A-VIII (*e*).
Gódávari	..	..	..	..	..	(*b*) 6	(*b*) Planting up certain bungalow and range house compounds.
Kistna	62	3	..	65	2	658	(*c*) Of these areas planted with date, 9 acres are failures and 9 acres only partially successful.
						(*a*) + 320	(*d*) By rectification of error.
Kurnool	..	..	..	..	..	(*b*) 88	(*e*) Includes Rs. 445 being the charges on account of the plantations included in reserved forests.
Bellary	132	23	1	154	..	876	
Anantapur	151	73	202	(*c*) 22	45	180	(*f*) This represents the difference between the Collector's figure under A-VIII (*e*) and the audited figures and is probably the expenditure on bamboo planting.
Total ..	749	99	203	645	74	2,701	
Central Circle.							
Cuddapah	601	..	(*d*) 5	596	176	(*e*) 1,081	
						(*a*) — 8	
Nellore	1,132	4	..	1,136	6	221	
						(*a*) — 4	
Chingleput	..	..	..	..	..	(*a*) + 164	
North Arcot	1,556	216	520	1,252	17	1,575	
South Arcot	1,490	..	1,490	..	..	(*f*) 786	
Salem	..	..	..	..	..	(*a*) + 34	
Trichinopoly	mls. 90 acs. 104	..	..	mls. 90 acs. 104	666	(*a*) 1,043	
Tanjore	756	320	..	1,076	..	28	
Total ..	5,639 mls. 90	540	2,015	4,164 mls. 90	865	4,920	
Southern Circle.							
The Nilgiris	479	6	..	485	..	718	
South Coimbatore ..	227	15	..	242	..	241	
Tinnevelly	3,404	18	..	3,422	..	(*a*) + 791 482	
Total, Southern Circle ..	4,110	39	..	4,149	..	2,232	
Total, Cultural operations, Presidency	10,498 mls. 90	678	2,218	8,958 mls. 90	939	9,853	
Total, Regular plantations and cultural operations, Northern Circle.	3,013	365	262	3,116	3,539	9,074	
Total, Regular plantations and cultural operations, Central Circle.	19,409 mls. 90	540	5,475	14,474 mls. 90	23,173	14,593	
Total, Regular plantations and cultural operations, Southern Circle.	11,387	209	426	11,170	67,521	11,600	
Presidency total, Plantations and cultural operations ..	33,809 mls. 90	1,114	6,163	28,760 mls. 90	94,233	35,267	

Annual Form No. 54.

Forest Department, Madras Presidency.

Annual List of Topes.

District.	Number of topes.	Chief trees.	Area.	Cost	
				During year.	To end of year.
Northern Circle.			acs.	rs.	rs.
Ganjám	7	Miscellaneous	101	..	922
Vizagapatam	2	Teak, and a large variety of other indigenous trees.	78	132	1,152
Kistna	(*b*) 13	Graft mangoes, tamarind, margosa, nim, palmyras, soapnut, date, bamboo, neredu, &c.	131	448	(*a*) 4,085
Kurnool	30	Tamarind, mango, margosa and ippa	206	122	10,036
Bellary	30	Casuarina, tamarind, mango, margosa, figs, ippa, &c.	212	130	2,430
Anantapur	95	Palmyra, babul and tamarind	2,885	82	9,395
Total ..	177	Total ..	3,613	914	28,020
Central Circle.					
Cuddapah	71	Palmyra, tamarind, margosa, mango, dirasanam, casuarina, maddi, tella tumma, babul, *Albizzia eugenia*, tangedu, orange, coffee and other ornamental trees.	1,630	289	61,807
Nellore	112	Palmyra, tamarind, margosa, neredu	1,776	..	38,044
Chingleput	(*c*) 9	Mango, margosa, tamarind, jack, iluppai, casuarina, korakapili, cocoanut and wood-apple.	88	108	(*d*) 8,410
North Arcot	71	Mango, fig, palmyra, cocoanut, illuppai, wood-apple, tamarind, date, banyan, babul, teak, jack, gova, orange, lime, soapnut, casuarina, &c.	1,938	462	45,912
South Arcot	(*e*) 63	Tamarind, iluppai, palmyra, nagai, vembu, mango, kattuvagai, puvarasu, babul, red-sanders, ceara rubber, sissu, cashew, casuarina, nelli.	464	..	(*f*) 9,007
Salem	126	Vagai, mango, pungam, nagai, casuarina, seemai-avaram, illupai, tamarind, palmyra, thurinji, cocoanut, margosa.	1,598	..	93,036
Trichinopoly	19	Mango, cocanut, bamboo, sissu, tamarind, palmyra and elandai.	573	156	2,100
Total ..	471	Total ..	8,067	1,015	2,58,316
Southern Circle.					
North Malabar	(*g*) 4	Eucalyptus, ceara rubber, mahoghany, *ficus elastica*, dendrocalamus, brandessee and other bamboos, orange, pepper vines and Liberian coffee plants.	56	415	5,478
South do.	1	Mango, *pongamia glabra*, tamarind, *terminalia paniculata*, and *eugenia jambolana*.	20	..	9
Coimbatore, North ..	5	Palmyra, sandalwood, *acacia arabica*, *albizzia amara lebbeck*, *melia*, and satinwood.	317	(*h*) 214	(*i*) 317
Do. South ..	23	Tamarind, palmyra, cocoanut and pasturage ..	267	40	5,330
Madura	(*k*)..	....	..	..	..
Tinnevelly	9	Tamarind, mango, gooseberry, palmyra, bamboo, banyan, jack, illuppai, teak, vengai, casuarina, vagai and nim.	84	62	2,394
Total ..	42	....	744	731	13,528
Grand Total, Presidency.	690	....	12,424	2,660	2,99,864

(*a*) Excludes Rs. 22, the cost of one tope abandoned during the year.
(*b*) Two topes of 74 acres were added during the year.
(*c*) One tope excluded having been notified under section IV of the Forest Act.
(*d*) Excludes Rs. 1,073, the cost of the tope removed from this list.
(*e*) One tope of one acre was sold to Revd. J. H. Wyckoff for Rs. 200.
(*f*) Excludes Rs. 20, the cost of one tope sold.
(*g*) Rectification of error in previous year's return.
(*h*) Added to tally with the Accountant-General's audited figures under Act VIII (*e*).
(*i*) Represents cost for the years 1896-97 and 1897-98.
(*k*) The topes shown in the previous year's returns are now reported to have been disafforested so long ago as 1888.

ANNUAL FORM No. 55.

Forest Department, Madras Presidency.

OUTTURN (in cubic feet, solid) of Timber and Fuel during the year 1897–98, and Agency of Exploitation.

District.	Timber.					Fuel.					Total.
	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Outturn.
1	2	3	4	5	6	7	8	9	10	11	12
Northern Circle.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.
Ganjám	21,136	151,664	..	..	172,800	9	438,877	..	..	438,886	611,686
Vizagapatam	161	99,127	2,053	..	101,341	24,139	201,099	648	..	225,886	327,227
Gódávari	..	234,161	5,600	..	239,761	4,131	277,161	..	..	281,292	521,053
Kistna	18,920	200,544	6,277	..	225,741	810	414,117	240	..	415,167	640,908
Kurnool	16,918	180,225	8,300	1,311	206,754	17,413	389,771	..	257,510	664,694	871,448
Bellary	445	81,804	5,081	..	87,330	1,420	267,916	..	..	269,336	356,666
Anantapur	..	19,844	430	..	20,274	..	88,875	..	..	88,875	109,149
Total ..	57,580	967,369	27,741	1,311	1,054,001	47,922	2,077,816	888	257,510	2,384,136	3,438,137
Central Circle.											
Cuddapah	17,046	123,101	3,940	..	144,087	643	609,368	..	..	610,011	754,098
Nellore	1,044	157,495	6,280	..	164,819	231,738	128,328	..	..	360,066	524,885
Chingleput	..	122,848	..	..	122,848	33,576	404,310	..	..	437,886	560,734
North Arcot	533	31,297	7,585	..	39,415	133,116	453,120	..	..	586,236	625,651
South Arcot	17,298	23,106	1,755	..	42,759	74,026	535,085	400	..	609,511	652,270
Salem	3,533	281,710	6,490	..	291,733	763,406	395,314	..	..	1,158,720	1,450,453
Trichinopoly	..	19,486	2,570	..	22,056	177,992	1,060,623	..	..	1,238,615	1,260,671
Tanjore	..	19,814	..	..	19,814	1,150	472,930	..	..	474,080	493,894
Total ..	40,054	778,857	28,620	..	847,531	1,415,647	4,059,078	400	..	5,475,125	6,322,656
Southern Circle.											
South Canara	9,757	6,312	12	..	16,081	13,251	662,080	..	..	675,331	691,412
North Malabar	46,149	10,499	4,008	..	60,656	..	580	3,880	..	4,460	65,116
South Malabar	163,710	40,124	..	..	203,834	401	27,888	..	..	28,289	232,123
Nilgiris	30,155	14,260	445	500	45,360	349,237	32,177	..	75	381,489	426,849
North Coimbatore	6,591	20,802	17	..	27,410	..	241,272	..	..	241,272	268,682
South Coimbatore	52,919	14,653	..	..	67,572	170,659	802,446	..	..	973,105	1,040,677
Madura	81	219,795	909	..	220,785	20,607	75,631	..	..	96,238	317,023
Tinnevelly	5,403	17,906	900	..	24,209	68,749	1,515,008	..	..	1,583,757	1,607,966
Total ..	314,765	344,351	6,291	500	665,907	622,904	3,357,082	3,880	75	3,983,941	4,649,848
Grand Total ..	412,399	2,090,577	62,652	1,811	2,567,439	2,086,473	9,493,976	5,168	257,585	11,843,202	14,410,641

ANNUAL FORM No. 56.

Forest Department, Madras Presidency.

OUTTURN of Minor Forest Produce during the year 1897-98.

Circle.	Description of produce.	Produce removed or utilized.									
		By Government Agency.		By purchasers.		By free grants.		By right-holders.		Total.	
		Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
1	2	3	4	5	6	7	8	9	10	11	12
Northern Circle.	Bamboos	NO. 13,389	RS. 573	NO. 12,264,891	RS. 61,830	NO. 32,910	RS. 169	NO. 20,489	RS. 128	NO. 12,331,679	RS. 62,800
	Grass and grazing	..	..	..	1,10,463	..	357	..	700	..	1,11,488
	Stones, gravel and earth	..	..	C. L. 12,145	4,373	..	..	..	..	..	4,373
	Tamarind, soapnuts, gallnuts	MDS. 27	60	MDS. 748	91	..	..	..	..	..	151
	Horns, honey, wax	..	..	,, 383	121	..	..	..	..	..	121
	Miscellaneous	MDS. 4,743	74	..	2,41,760	..	1,066	..	38,450	..	2,81,382
	Total	..	707	..	4,18,738	..	1,592	..	39,278	..	4,60,315
Central Circle.	Bamboos	NO. 8,715	2,316	NO. 12,303,451	98,693	NO. 155,071	486	..	..	NO. 12,467,237	1,01,495
	Grass and grazing	..	..	..	1,76,968	..	..	..	356	..	1,77,324
	Stones, gravel and earth	..	..	C. L. 2,465; C. FT. 321,520; TONS 9,126	4,793	..	..	..	..	..	4,793
	Tamarind, soapnuts, gallnuts	MDS. 7,328	3,664	..	594	..	..	..	..	..	4,258
	Miscellaneous	,, 516	1,023	..	2,08,351	..	105	..	..	..	2,09,479
	Total	..	7,003	..	4,89,399	..	591	..	356	..	4,97,349
Southern Circle.	Bamboos	NO. 236,634	3,496	NO. 4,178,232	24,079	NO. 15,592	217	NO. 825	2	NO. 4,431,283	27,794
	Grass and grazing	..	..	..	76,614	..	..	..	615	..	77,229
	Stones, gravel and earth	..	..	C. L. 6,270; C. FT. 17,638; TONS 488	752	C. FT. 11,953; C. L. 10	27	..	..	..	779
	Tamarind, soapnuts, gallnuts	MDS. 18,549	20,759	..	..	..	..	..	..	..	20,759
	Horns, honey, wax	,, 506	2,583	..	..	..	..	..	..	..	2,583
	Catechu	,, 1,460	13,622	..	..	..	..	..	..	..	13,622
	Miscellaneous	,, 1,059	9,136	..	80,491	..	274	..	290	..	90,191
	Total	..	49,596	..	1,81,936	..	518	..	907	..	2,32,957
	Grand Total	..	57,306	..	10,90,073	..	2,701	..	40,541	..	11,90,621

ANNUAL FORM NO. 57.

Forest Department, Madras Presidency.

ACCOUNT of Timber cut or collected by Government Agency and brought to depot, sold locally, &c., or otherwise disposed of during the year 1897–98.

Name of district.	Balance at commencement of the year in forests and sale depots.	Received during the year.	Total.	Disposed of during the year.	Balance in hand at the close of the year in forests and sale depots.
1	2	3	4	5	6
TIMBER (CUBIC FEET).					
Northern Circle.					
Ganjám	8,123	21,136	29,259	26,813	2,446
Vizagapatam	..	161	161	161	..
Gódávari	..	..	..	..	..
Kistna	8,875	18,920	27,795	27,110	685
Kurnool	4,176	16,918	21,094	10,854	10,240
Bellary	24,759	445	25,204	18,253	6,951
Anantapur	..	..	..	..	..
Total ..	45,933	57,580	103,513	83,191	20,322
Central Circle.					
Cuddapah	4,136	17,046	21,182	8,376	12,806
Nellore	..	1,044	1,044	1,020	24
Chingleput	..	..	..	..	..
North Arcot	1,023	533	1,556	1,363	193
South Arcot	1,073	17,898	18,971	18,967	4
Salem	618	3,533	4,151	3,610	541
Trichinopoly	..	..	..	..	..
Tanjore	..	..	..	..	..
Total ..	6,850	40,054	46,904	33,336	13,568
Southern Circle.					
South Canara	24,865	9,757	34,622	11,501	23,121
Malabar (North)	62,331	46,149	108,480	63,663	44,817
Do. (South)	98,064	163,710	261,774	141,591	120,183
Nilgiris	2,987	30,155	33,142	27,693	5,449
Coimbatore (North)	2,965	6,591	9,556	7,155	2,401
Do. (South)	78,366	52,919	131,285	41,465	89,820
Madura	851	81	932	927	5
Tinnevelly	2,134	5,403	7,537	7,385	152
Total ..	272,563	314,765	587,328	301,380	285,948
Grand Total ..	325,346	412,399	737,745	417,907	319,838
FUEL (CUBIC FEET).					
Northern Circle.					
Ganjám	..	9	9	3	6
Vizagapatam	..	24,139	24,139	24,139	..
Gódávari	..	4,131	4,131	4,131	..
Kistna	5,027	810	5,837	5,837	..
Kurnool	11,152	17,413	28,565	16,883	11,682
Bellary	68,602	1,420	70,022	45,104	24,918
Anantapur	..	..	..	..	..
Total ..	84,781	47,922	132,703	96,097	36,606
Central Circle.					
Cuddapah	..	643	643	43	600
Nellore	68,430	231,738	300,168	193,298	106,870
Chingleput	..	33,576	33,576	30,209	3,367
North Arcot	205,683	133,116	338,799	327,709	11,090
South Arcot	18,757	74,026	92,783	92,463	320
Salem	4,265	763,406	767,671	766,732	939
Trichinopoly	89,345	177,992	267,337	161,743	105,594
Tanjore	..	1,150	1,150	1,150	..
Total ..	386,480	1,415,647	1,802,127	1,573,347	228,780
Southern Circle.					
South Canara	765	13,251	14,016	13,195	821
Malabar (North)	..	..	..	..	..
Do. (South)	75	401	476	109	367
Nilgiris	329,161	349,237	678,398	398,650	279,748
Coimbatore (North)	..	..	..	..	..
Do. (South)	10,734	170,659	181,393	77,734	103,659
Madura	3,072	20,607	23,679	22,134	1,545
Tinnevelly	20,752	68,749	89,501	84,701	4,800
Total ..	364,559	622,904	987,463	596,523	390,940
Grand Total ..	835,820	2,086,473	2,922,293	2,265,967	656,326

Account of Timber, &c., cut or collected by Government Agency and brought to depot, sold locally, or otherwise disposed of during the year 1897-98—*cont.*

Name of district.	Balance at commencement of the year in forests and sale depots.	Received during the year.	Total.	Disposed of during the year.	Balance in hand at the close of the year in forests and sale depots.
1	2	3	4	5	6
MINOR FOREST PRODUCE (MAUNDS OF 25 lb.).					
Northern Circle.					
Ganjám	..	..	..	..	..
Vizagapatam	66,564	4,256	70,820	58,972	11,848
Gódávari	..	..	..	..	..
Kistna	..	167	167	..	167
Kurnool	55	347	402	13	389
Bellary	82	..	82	..	82
Anantapur	..	..	..	..	..
Total	66,701	4,770	71,471	58,985	12,486
Central Circle.					
Cuddapah	455	14	469	461	8
Nellore	5,788	7,584	13,372	38	13,334
Chingleput	..	..	..	..	..
North Arcot	..	..	..	..	..
South Arcot	..	..	..	..	..
Salem	..	..	..	..	..
Trichinopoly	..	246	246	246	..
Tanjore	..	..	..	..	..
Total	6,243	7,844	14,087	745	13,342
Southern Circle.					
South Canara	157	1,503	1,660	1,627	33
Malabar (North)	43	65	108	22	86
Do. (South)	261	116	377	266	111
Nilgiris	495	104	599	527	72
Coimbatore (North)	5,330	17,756	23,086	7,425	15,661
Do. (South)	278	1,527	1,805	1,721	84
Madura	..	263	263	263	..
Tinnevelly	..	240	240	240	..
Total	6,564	21,574	28,138	12,091	16,047
Grand Total	79,508	34,188	113,696	71,821	41,875
BAMBOOS (NUMBER).					
Northern Circle.					
Ganjám	30	70	100	100	..
Vizagapatam	..	..	..	..	..
Gódávari	..	..	..	..	..
Kistna	..	..	..	..	..
Kurnool	4,080	10,819	14,899	5,495	9,404
Bellary	1,391	2,500	3,891	618	3,273
Anantapur	..	..	..	..	..
Total	5,501	13,389	18,890	6,213	12,677
Central Circle.					
Cuddapah	..	..	..	..	..
Nellore	..	..	..	..	..
Chingleput	..	..	..	..	..
North Arcot	1,847	4,415	6,262	4,193	2,069
South Arcot	2,344	..	2,344	2,344	..
Salem	..	4,300	4,300	4,300	..
Trichinopoly	..	..	..	..	..
Tanjore	..	..	..	..	..
Total	4,191	8,715	12,906	10,837	2,069
Southern Circle.					
South Canara	..	225	225	50	175
Malabar (North)	..	1,470	1,470	470	1,000
Do. (South)	65	27,533	27,598	27,598	..
Nilgiris	..	..	..	..	..
Coimbatore (North)	5,760	202,400	208,160	205,940	2,220
Do. (South)	4,200	5,000	9,200	9,200	..
Madura	..	..	..	..	..
Tinnevelly	..	6	6	6	..
Total	10,025	236,634	246,659	243,264	3,395
Grand Total	19,717	258,738	278,455	260,314	18,141

Annual Form No. 58.

Forest Department, Madras Presidency.

Abstract showing the Value of Timber and other Produce at sale depots for the year 1897–98.

Description of timber or produce.	On hand at commencement of the year.			On hand at close of the year.			Difference in value.	
	Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favour of the year.	Against the year.
Northern Circle.			RS.			RS.	RS.	RS.
Sal	..	7,136	2,676	..	901	336	..	..
Teak	..	1,742	2,174	..	3,041	3,801	..	..
Vengai	..	2,422	2,420	..	..	..	..	..
Miscellaneous	..	34,633	6,392	..	16,380	8,489	..	..
Total, Timber ..	..	45,933	13,662	..	20,322	12,626	..	1,036
Fuel	..	84,781	4,456	..	36,606	6,687	2,231	..
Bamboos	5,501	..	204	12,677	..	475	271	..
	MDS.			MDS.				
Minor produce	66,701	..	577	12,486	..	511	..	66
Central Circle.								
Teak	..	117		..	..	..	..	..
Vengai	..	48	1,838	..	..	..	..	..
Redwood	..	830		..	12,290	3,761	..	..
Miscellaneous	..	5,220		..	981	367	..	..
Sandalwood	..	635	6,330	..	297	2,970	..	..
Total, Timber ..	..	6,850	8,168	..	13,568	7,098	..	1,070
Fuel	..	386,480	18,623	..	228,780	24,532	5,909	..
Bamboos	4,191	..	317	2,069	..	487	170	..
	MDS.			MDS.				
Minor produce	6,243	..	3,641	13,342	..	7,019	3,378	..
Southern Circle.								
Teak	..	93,061		..	70,367			
Rosewood	..	4,049		..	5,011			
Vengai	..	9,416	1,49,916	..	5,077	1,59,842	..	..
Ironwood	..	648		..	487			
Miscellaneous	..	164,069		..	204,899			
Sandalwood	..	1,320	13,946	..	107	1,302	..	..
Total, Timber ..	..	272,563	1,63,862	..	285,948	1,61,144	..	2,718
Fuel	..	364,559	5,269	..	390,940	5,013	..	256
Bamboos	10,025	..	65	3,395	..	226	161	..
	MDS.			MDS.				
Minor produce	6,564	..	8,740	16,047	..	25,641	16,901	..
Grand Total.								
Timber	..	325,346	1,85,692	..	319,838	1,80,868	..	4,824
Fuel	..	835,820	28,348	..	656,326	36,232	7,884	..
Bamboos	19,717	..	586	18,141	..	1,188	602	..
	MDS.			MDS.				
Minor produce	79,508	..	12,958	41,875	..	33,171	20,213	..

LIBRARY OF THE BOMBAY BRANCH OF THE ROYAL ASIATIC SOCIETY

Annual Form No. 72-A (Old Code).

Forest Department, Madras Presidency.

Timber and other Produce cut, collected and removed by consumers or purchasers during 1897–98.

District.	Timber.	Firewood and charcoal.	Bamboos.	Money value of sales.											
				Timber.		Firewood and charcoal.		Bamboos.		Grazing and fodder grass.		Minor produce.		Total.	
				Amount of sales.	Amount actually realized during the year.	Amount of sales.	Amount actually realized during the year.	Amount of sales.	Amount actually realized during the year.	Amount of sales.	Amount actually realized during the year.	Amount of sales.	Amount actually realized during the year.	Amount of sales.	Amount actually realized during the year.
Northern Circle.	C. FEET.	C. FEET.	NO.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Ganjám	151,664	438,877	1,236,501	19,454	19,455	6,456	6,456	5,492	5,492	6,774	6,774	5,103	5,103	43,279	43,280
Vizagapatam	99,127	201,099	633,797	5,639	5,457	4,735	4,735	5,929	5,928	2,987	2,986	4,996	5,018	24,286	24,124
Gódávari	234,161	277,161	5,477,907	42,045	42,045	6,402	6,391	29,280	29,280	9,580	9,580	7,228	7,229	94,535	94,525
Kistna	200,544	414,117	174,470	13,599	13,256	9,777	9,953	1,579	1,571	55,224	55,254	14,007	13,819	94,186	93,853
Kurnool	180,225	389,771	4,666,360	18,113	18,114	12,133	12,037	18,129	18,132	16,817	16,817	28,056	28,646	93,248	93,746
Bellary	81,804	267,916	70,296	5,883	5,978	6,396	5,866	1,406	1,406	15,695	15,695	81,503	72,213	1,10,883	1,01,158
Anantapur	19,844	88,875	5,560	3,470	3,470	1,847	1,848	115	115	3,386	3,374	1,05,452	71,333	1,14,270	80,140
Total ..	967,369	2,077,816	12,264,891	1,08,203	1,07,775	47,746	47,286	61,930	61,924	1,10,463	1,10,480	2,46,345	2,03,761	5,74,687	5,30,826
Central Circle.															
Cuddapah	123,101	609,368	1,770,110	8,750	8,749	22,663	22,663	5,698	5,702	13,926	13,943	55,906	59,868	1,06,943	1,10,925
Nellore	157,495	128,328	2,722	11,250	11,344	4,954	4,977	125	130	25,026	25,026	17,209	17,502	58,564	58,979
Chingleput	122,848	404,310	19,980	8,445	7,692	14,891	13,507	71	77	9,293	9,293	26,904	13,189	59,604	43,758
North Arcot	31,297	453,120	3,778,343	6,445	6,569	35,404	28,561	48,738	28,546	21,215	21,226	35,562	34,029	1,47,364	1,18,931
South do.	23,106	535,085	37,875	2,888	2,888	33,443	27,755	2,110	2,110	49,590	49,590	19,883	20,540	1,07,915	1,02,883
Salem	281,710	395,814	6,361,137	51,675	48,452	16,998	15,590	38,664	39,228	46,753	46,861	40,469	45,922	1,94,558	1,96,053
Trichinopoly	19,486	1,060,623	328,876	1,898	1,700	18,993	20,061	2,550	2,429	10,667	10,590	12,625	15,977	46,733	50,757
Tanjore	19,814	472,930	4,408	1,238	1,238	9,618	9,082	737	737	498	492	5,180	4,757	17,271	16,306
Total ..	778,857	4,059,078	12,303,451	92,589	88,632	1,56,964	1,42,196	98,693	78,959	1,76,968	1,77,021	2,13,738	2,11,784	7,38,952	6,98,592
Southern Circle.															
South Canara	6,312	662,080	121,688	1,583	1,578	10,345	10,345	1,742	1,742	4,198	4,198	10,651	9,707	28,519	27,570
North Malabar	10,499	580	8,969	4,817	4,859	9	9	144	144	1,465	1,465	1,841	1,841	8,276	8,318
South do.	40,124	27,888	137,490	8,554	8,554	432	432	2,056	2,056	27	27	990	1,633	12,059	12,602
Nilgiris	14,260	32,177	316,643	2,757	2,757	978	978	3,580	3,580	7,784	7,783	2,560	2,517	17,659	17,615
North Coimbatore ..	20,802	241,272	2,057,280	1,886	1,852	15,719	14,239	6,432	6,429	43,737	43,031	5,309	7,009	73,083	72,560
South do.	14,653	802,446	1,466,580	8,075	5,984	13,471	14,183	7,549	5,204	6,553	6,553	6,594	5,411	42,242	37,335
Madura	219,795	75,631	29,582	17,062	17,061	2,906	2,912	2,150	2,150	7,355	7,364	33,130	33,131	62,603	62,618
Tinnevelly	17,906	1,515,008	40,000	3,659	4,223	29,901	34,616	426	479	5,495	5,983	20,168	19,794	59,649	65,095
Total ..	344,351	3,357,082	4,178,232	48,393	46,868	73,761	77,714	24,079	21,784	76,614	76,404	81,243	80,943	3,04,090	3,03,713
Grand Total ..	2,090,577	9,493,976	28,746,574	2,49,185	2,43,275	2,78,471	2,67,196	1,84,702	1,62,667	3,64,045	3,63,905	5,41,326	4,96,088	16,17,729	15,33,131

Add outstandings at the close of 1896–97	1,70,905
Total ..	17,88,634
Deduct written off, &c.	2,008
Balance ..	17,86,626
Deduct amount realized as per Form No. 59	15,33,131
Balance outstanding on 30th June 1898	2,53,495

ANNUAL FORM No. 72-B (OLD CODE).

Forest Department, Madras Presidency.

TIMBER and other Produce confiscated and sold during the year 1897–98.

District.	TIMBER.		FIREWOOD.		BAMBOOS.		Minor produce in value.	Total amount of sales.	Amount actually realized.
	Quantity in cubic feet.	Amount of sales.	Quantity in cubic feet.	Amount of sales.	Number.	Amount of sales.			
Northern Circle.		RS.		RS.		RS.	RS.	RS.	RS.
Ganjám	2,450	161	118	2	438	4	..	167	167
Vizagapatam ..	1,126	83	543	24	303	2	12	121	121
Gódávari	31,696	1,981	50,240	785	66,268	580	48	3,394	3,394
Kistna	629	110	168	10	167	3	37	160	160
Kurnool	2,209	813	2,210	55	7,061	92	53	1,013	1,091
Bellary	80	7	160	50	..	..	50	107	107
Anantapur	144	17	15	1	..	..	..	18	18
Total ..	38,334	3,172	53,454	927	74,237	681	200	4,980	5,058
Central Circle.									
Cuddapah	4,002	2,688	264	69	501	4	31	2,792	2,792
Nellore	255	35	1,440	162	..	..	22	219	219
Chingleput	235	51	1,102	182	200	6	3	242	242
North Arcot ..	710	110	393	40	127	2	6	158	158
South do. ..	349	44	2,390	149	..	..	46	239	239
Salem	1,962	262	339	17	4,079	110	9	398	398
Trichinopoly ..	113	18	1,551	103	200	1	45	167	167
Tanjore	3	..	488	9	..	..	5	14	14
Total ..	7,629	3,208	7,967	731	5,107	123	167	4,229	4,229
Southern Circle.									
South Canara ..	2,107	922	3,776	236	80	5	14	1,177	1,177
North Malabar ..	..	..	..	..	..	..	..	..	..
South do. ..	258	21	..	..	..	..	1	22	22
Nilgiris	300	134	18	1	229	3	..	138	138
North Coimbatore ..	2,676	407	303	15	4,951	75	11	508	508
South do. ..	188	87	1,926	46	2,240	9	17	159	159
Madura	802	71	1,492	70	6	..	37	178	178
Tinnevelly	60	28	10,290	384	..	..	14	426	426
Total ..	6,391	1,670	17,805	752	7,506	92	94	2,608	2,608
Grand Total ..	52,354	8,050	79,226	2,410	86,850	896	461	11,817	11,895
Add outstandings at the close of 1896-97								81	
							Total ..	11,898	
Deduct amount realized during the year as per Form No. 59								11,895	
							Balance outstanding on 30th June 1898 ..	3	

ANNUAL FORM No. 59.

SUMMARY of Revenue of the different Districts, 1897-98 (Forest year).

Budget heads.	Northern Circle.									Central Circle.				
	Direction.	Ganjám.	Vizagapatam.	Gódávari.	Kistna.	Kurnool.	Bellary.	Anantapur.	Total.	Direction.	Nellore.	Cuddapah.	Chingleput.	North Arcot.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Receipts.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
I. Timber and other produce removed from the forests by Government Agency—														
(*a*) Timber	..	10,824	80	..	2,256	11,602	1,815	..	26,577	..	251	7,153	..	212
(*b*) Firewood and charcoal	..	..	1,084	81	168	1,987	1,878	..	5,198	..	28,438	6	2,925	11,438
(*c*) Bamboos	..	..	..	..	..	219	21	..	240	..	..	..	..	1,506
(*d*) Sandalwood	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(*e*) Grass and other minor produce	..	..	311	..	2	31	..	..	344	..	53	269	16	..
II. Timber and other produce removed from the forests by consumers or purchasers—														
(*a*) Timber	..	19,455	5,457	42,045	13,256	18,114	5,978	3,470	1,07,775	..	11,344	8,749	7,692	6,569
(*b*) Firewood and charcoal	..	6,456	4,735	6,391	9,953	12,037	5,866	1,848	47,286	..	4,977	22,663	13,507	28,561
(*c*) Bamboos	..	5,492	5,928	29,280	1,571	18,132	1,406	115	61,924	..	130	5,702	77	28,546
(*d*) Grazing and fodder grass	..	6,774	2,986	9,580	55,254	16,817	15,695	3,374	1,10,480	..	25,026	13,943	9,293	21,226
(*e*) Other produce	..	5,103	5,018	7,229	13,819	28,646	72,213	71,333	2,03,361	..	17,502	59,868	13,189	34,029
III. Confiscated drift and waifwood	..	167	121	3,394	160	1,091	107	18	5,058	..	219	2,792	242	168
IV. Revenue from forests not managed by Government	..	..	..	..	..	..	..	..	..	..	..	..	..	..
V. Miscellaneous—														
(*a*) Fines and forfeitures	..	21	..	10	..	20	20	907	978	..	171	586	227	645
(*b*) Refunds	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(*c*) Other sources	112	982	2,856	4,164	7,841	4,925	6,356	3,213	30,449	10	1,780	3,527	4,473	4,721
Total, Receipts	112	55,274	28,576	1,02,174	1,04,280	1,13,621	1,11,355	84,278	5,99,670	10	89,891	1,25,258	51,641	1,37,611

Budget heads.	Central Circle—*cont.*					Southern Circle.								
	South Arcot.	Salem.	Trichinopoly.	Tanjore.	Total.	Direction.	Nilgiris.	North Coimbatore.	South Coimbatore.	Madura.	Tinnevelly.	North Malabar.	South Malabar.	South Canara.	Total.
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Receipts.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
I. Timber and other produce removed from the forests by Government Agency—															
(*a*) Timber	925	2,132	278	..	10,951	..	22,043	944	32,100	15	7,533	30,515	92,161	6,830	1,92,141
(*b*) Firewood and charcoal	6,853	82,278	9,205	73	1,41,216	..	19,896	..	1,079	1,341	3,119	..	4	1,566	27,005
(*c*) Bamboos	21	166	..	..	1,693	..	..	4,585	14	..	3	67	2,614	7	7,290
(*d*) Sandalwood	23	3,169	..	..	3,192	..	8,229	22,278	..	..	..	..	..	..	30,507
(*e*) Grass and other minor produce	..	..	53	..	391	..	336	6,393	7,635	53	9	2,662	458	14,010	31,556
II. Timber and other produce removed from the forests by consumers or purchasers—															
(*a*) Timber	2,888	48,452	1,700	1,238	88,632	..	2,757	1,852	5,984	17,061	4,223	4,859	8,554	1,578	46,868
(*b*) Firewood and charcoal	27,755	15,590	20,061	9,082	1,42,196	..	978	14,239	14,183	2,912	34,616	9	432	10,345	77,714
(*c*) Bamboos	2,110	39,228	2,429	737	78,959	..	3,580	6,429	5,204	2,150	475	144	2,056	1,742	21,784
(*d*) Grazing and fodder grass	49,590	46,861	10,590	492	1,77,021	..	7,783	43,031	6,553	7,364	5,983	1,465	27	4,198	76,404
(*e*) Other produce	20,540	45,922	15,977	4,757	2,11,784	..	2,517	7,009	5,411	33,131	19,794	1,841	1,533	9,707	80,943
III. Confiscated drift and waifwood	239	398	167	14	4,229	..	138	508	159	178	426	..	22	1,177	2,608
IV. Revenue from forests not managed by Government	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
V. Miscellaneous—															
(*a*) Fines and forfeitures	242	110	625	65	2,671	..	..	59	185	108	72	..	..	100	524
(*b*) Refunds	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(*c*) Other sources	3,788	7,267	248	85	25,899	15	7,693	3,171	24,320	981	4,869	13,277	9,525	3,415	67,266
Total, Receipts	1,14,974	2,91,573	61,333	16,543	8,88,834	15	75,950	1,10,498	1,02,827	65,294	81,126	54,839	1,17,386	54,675	6,62,610

MADRAS, 25th August 1898.

(Signed) J. O. B. POWER, Chief Superintendent.

ANNUAL FORM No. 59—*cont.*

Forest Department, Madras Presidency, Northern Circle.

SUMMARY of Expenditure of the different Districts for the forest year 1897-98.

Budget heads.	Direction.	Ganjám.	Vizagapatam.	Gódávari.	Kistna.	Kurnool.	Bellary.	Anantapur.	Total.
A.—Conservancy and Works.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
I. Timber and other produce removed from the forests by Government Agency—									
(*a*) Timber	..	3,622	47	24	— 72	8,676	330	6	12,633
(*b*) Firewood and charcoal	..	..	1,193	94	119	1,211	1,047	..	3,664
(*c*) Bamboos	..	..	..	..	..	224	48	..	272
(*d*) Sandalwood ..	..	..	..	..	..	..	..	..	..
(*e*) Grass and other minor produce ..	..	..	..	..	131	56	..	..	187
II. Timber and other produce removed from the forests by consumers or purchasers	..	5,347	4,155	10,282	5,693	13,114	3,369	916	42,876
III. Confiscated drift and waif-wood	..	69	5	584	25	77	1	..	761
IV. Revenue from forests not managed by Government	..	..	..	..	..	..	..	..	..
V. Rent of leased forests and payments to share-holders in forests managed by Government	..	..	..	..	..	..	10,000	..	10,000
VI. Live-stock, stores, tools and plant—									
(*a*) Purchase of cattle ..	..	..	..	..	..	..	..	..	..
(*b*) Feed and keep of cattle	427	..	139	1,149	..	780	..	..	2,495
(*c*) Stores, tools and plan	822	..	257	1,881	1,181	1,207	894	652	6,894
VII. Communications and buildings—									
(*a*) Roads and bridges ..	418	770	523	1,920	6,315	1,644	59	..	11,649
(*b*) Buildings	85	1,934	2,461	2,762	3,385	4,430	32	619	15,708
(*c*) Other works ..	..	28	37	..	130	438	579	..	1,212
VIII. Demarcation, improvement and extension of forests—									
(*a*) Demarcation ..	..	936	2,583	1,217	3,998	3,892	1,819	89	14,534
(*b*) Cost of forest settlement; compensation for land and rights	..	..	1,729	..	844	589	28	58	3,248
(*c*) Surveys. (1) Local	..	1,708	1,367	1,140	1,859	1,406	410	358	8,248
(2) Survey of India charges	28,806	..	..	..	..	..	..	..	28,806
(*d*) Working plans ..	..	..	..	..	185	..	..	..	185
(*e*) Sowing and planting.	272	2,722	255	764	4,497	210	1,006	262	9,988
(*f*) Protection from fire.	..	1,041	456	2,169	301	2,456	1,843	1,379	9,645
(*g*) Other works ..	..	..	..	..	11,643	746	3,278	3,114	18,781
IX. Miscellaneous—									
(*a*) Refunds	..	..	— 369	163	65	209	2,369	285	2,722
(*b*) Law charges ..	..	91	14	..	— 79	182	..	510	718
(*c*) Other charges ..	7	31	207	69	417	12	8	50	801
Total, A.—Conservancy and Works.	30,837	18,299	15,059	24,218	40,637	41,559	27,120	8,298	2,06,027

MADRAS,
25th August 1898.

(Signed) J. O. B. POWER,
Chief Superintendent.

ANNUAL FORM No. 59—*cont.*

Forest Department, Madras, Central Circle.

SUMMARY of Expenditure of the different Districts for the forest year 1897-98—*cont.*

Budget heads.	Direction.	Nellore.	Cuddapah.	Chingleput.	North Arcot.	South Arcot.	Salem.	Trichinopoly.	Tanjore.	Total.
A.—Conservancy and Works.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
I. Timber and other produce removed from the forests by Government Agency—										
(*a*) Timber ..	..	69	2,499	..	71	722	1,629	..	..	4,990
(*b*) Firewood and charcoal ..	..	14,570	68	1,330	4,342	3,296	53,631	3,079	..	80,316
(*c*) Bamboos ..	..	..	..	..	782	..	53	..	..	835
(*d*) Sandalwood ..	..	..	..	..	..	..	202	..	..	202
(*e*) Grass and other minor produce ..	..	2,571	26	11	7	..	5	26	..	2,646
II. Timber and other produce removed from the forests by consumers or purchasers ..	..	1,559	8,746	2,057	242	2,963	11,042	2,121	467	29,197
III. Confiscated, drift and waifwood	..	2	307	3	2	5	20	..	2	341
IV. Revenue from forests not managed by Government	..	..	..	..	..	..	..	..	..	..
V. Rent of leased forests and payments to shareholders in forests managed by Government	..	..	..	..	..	..	10	..	..	10
VI. Live-stock, stores, tools and plant—										
(*a*) Purchase of cattle ..	..	..	..	..	..	..	..	..	..	..
(*b*) Feed and keep of cattle ..	..	..	1	..	..	3	..	..	..	4
(*c*) Stores, tools and plant ..	5,980	2,240	10	91	5	209	37	4	14	8,590
VII. Communications and buildings—										
(*a*) Roads and bridges ..	..	..	3,182	268	1,520	197	1,843	..	..	7,010
(*b*) Buildings ..	..	310	1,050	1,615	2,668	417	1,204	583	46	7,893
(*c*) Other works ..	..	..	..	— 50	80	..	110	4	..	144
VIII. Demarcation, improvement and extension of forests—										
(*a*) Demarcation ..	..	2,044	3,632	2,396	2,339	3,265	628	355	..	14,659
(*b*) Cost of forest settlement; compensation for land and rights ..	..	..	..	..	1,579	9	71	..	..	1,659
(*c*) Surveys (1) Local ..	295	358	517	360	333	268	1,732	299	..	4,162
(2) Survey of India department charges	45,014	..	..	..	..	..	..	..	..	45,014
(*d*) Working plans.	..	165	61	..	..	7	..	27	..	260
(*e*) Sowing and planting ..	..	1,887	1,362	556	4,667	3,863	34	1,199	2,040	15,608
(*f*) Protection from fire	..	668	4,641	394	5,048	661	1,818	105	..	13,335
(*g*) Other works ..	..	1,166	2,921	2,319	6,961	5,085	7,195	3,228	489	29,364
IX. Miscellaneous—										
(*a*) Refunds	..	420	417	56	305	81	386	407	91	2,163
(*b*) Law charges ..	..	24	..	..	8,883	..	74	..	..	8,981
(*c*) Other charges ..	24	13	66	144	93	37	409	37	..	823
Total A.—Conservancy and Works ..	51,313	28,066	29,506	11,550	39,927	21,088	82,133	11,474	3,149	2,78,206

MADRAS,
25th August 1898.

(Signed) J. O. B. POWER,
Chief Superintendent.

ANNUAL FORM No. 59—*cont.*

Forest Department, Madras, Southern Circle.

SUMMARY of Expenditure of the different Districts for the forest year 1897-98—*cont.*

Budget heads.	Direction.	Nilgiris.	North Coimbatore.	South Coimbatore.	Madura.	Tinnevelly.	North Malabar.	South Malabar.	South Canara.	Total.
A.—Conservancy and Works.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
I. Timber and other produce removed from the forests by Government Agency—										
(*a*) Timber ..	..	2,415	901	12,373	..	4,091	3,149	13,922	4,588	41,439
(*b*) Firewood and charcoal ..	..	13,117	52	797	688	2,119	..	..	365	17,138
(*c*) Bamboos ..	..	..	3,411	1	..	2	61	169	..	3,644
(*d*) Sandalwood ..	..	681	1,873	..	..	..	..	..	..	2,554
(*e*) Grass and other minor produce.	..	57	6,998	2,830	11	..	361	179	3,294	13,730
II. Timber and other produce removed from the forests by consumers or purchasers ..	..	1,150	2,373	4,235	1,567	1,588	388	6	4,988	16,295
III. Confiscated, drift and waifwood	..	..	28	12	1	..	..	..	249	290
IV. Revenue from forests not managed by Government	..	..	..	..	..	..	..	..	..	..
V. Rent of leased forests and payments to shareholders in forests managed by Government	..	4,500	..	2,500	..	..	..	556	..	7,556
VI. Live-stock, stores, tools and plant—										
(*a*) Purchase of cattle ..	..	..	..	250	..	..	2,707	283	..	3,240
(*b*) Feed and keep of cattle ..	..	4,439	..	4,863	..	..	9,378	8,191	1,058	27,929
(*c*) Stores, tools and plant ..	648	722	1,325	3,544	489	262	417	805	708	8,920
VII. Communications and buildings—										
(*a*) Roads and bridges ..	..	1,346	4,494	1,259	52	5,795	898	343	843	15,030
(*b*) Buildings ..	..	2,941	2,831	5,544	2,344	2,818	1,384	2,513	229	20,604
(*c*) Other works ..	..	180	..	3,289	129	173	65	149	442	4,427
VIII. Demarcation, improvement and extension of forests—										
(*a*) Demarcation ..	..	1,970	3,042	284	326	390	434	558	1,536	8,540
(*b*) Cost of forest settlement; compensation for land and rights ..	..	..	..	..	375	4,994	1,000	..	83	6,452
(*c*) Surveys { (1) Local ..	125	637	393	120	305	357	702	84	2,488	5,211
(2) Survey of India department charges.	26,687	..	..	..	..	..	..	..	..	26,687
(*d*) Working plans.	..	..	..	..	..	915	..	..	..	915
(*e*) Sowing and planting ..	..	1,122	214	1,072	817	544	951	7,511	100	12,331
(*f*) Protection from fire	..	1,883	496	2,563	2,944	1,268	1,208	2,353	820	13,535
(*g*) Other works ..	..	1,028	5,474	1,031	4,604	4,388	1,082	1,293	1,076	19,976
IX. Miscellaneous—										
(*a*) Refunds ..	..	221	526	525	122	467	286	...	1,049	3,196
(*b*) Law charges ..	4	..	..	..	..	..	..	1	2	7
(*c*) Other charges ..	44	2,759	126	1,527	414	113	241	22	85	5,331
Total A.—Conservancy and works ..	27,508	41,168	34,557	48,619	15,188	30,284	24,712	38,938	24,003	2,84,977

MADRAS,
25th August 1898.

(Signed) J. O. B. POWER,
Chief Superintendent.

ANNUAL FORM No. 59—*cont.*

SUMMARY of Expenditure of the different Districts for the forest year 1897-98.

Budget heads.	Northern Circle.									Central Circle.									Southern Circle.									
	Direction.	Ganjam.	Vizagapatam.	Godavari.	Kistna.	Kurnool.	Bellary.	Anantapur.	Total.	Direction.	Nellore.	Cuddapah.	Chingleput.	North Arcot.	South Arcot.	Salem.	Trichinopoly.	Tanjore.	Total.	Direction.	Nilgiris.	North Coimbatore.	South Coimbatore.	Madura.	Tinnevelly.	North Malabar.	South Malabar.	South Canara.	Total.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
B.—"Establishments."	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Brought forward, Total A. "Conservancy and Works"	2,031 *28,806	18,299	15,059	24,218	40,637	41,559	27,120	8,298	1,77,221 28,806	51,313	28,066	20,506	11,550	39,927	21,088	82,133	1,474	3,149	2,78,206	27,508	41,168	34,557	48,619	15,188	30,284	24,712	38,938	24,003	2,84,977
I. Salaries—																													
(a) Conservators ...	16,267	...	...	...	...	...	...	...	16,267	19,730	...	...	...	...	...	...	...	...	19,730	12,908	...	...	...	...	...	...	...	12,908
(b) Superior officers ...	12,075	6,600	7,357	15,012	10,890	17,969	5,550	8,828	84,281	13,048	7,780	21,087	4,005	10,033	9,850	14,287	6,600	...	86,690	10,260	18,280	8,516	10,805	12,811	13,011	6,601	7,900	9,488	97,672
(c) Subordinate forest and depot establishments ...	783	8,508	4,881	10,930	9,860	9,885	8,284	6,676	59,857	322	7,934	12,627	4,898	14,563	10,022	12,780	6,378	1,119	71,543	518	9,811	8,528	9,765	8,412	8,113	6,314	6,499	6,752	63,676
(d) Office establishments.	11,637	2,428	1,806	3,861	3,572	3,939	2,426	2,377	32,046	10,722	3,017	3,915	1,866	3,653	2,752	3,624	2,012	881	32,442	10,324	3,085	3,937	3,435	3,493	3,212	3,105	2,229	3,356	36,176
(e) Deputation and Special allowances.	...	...	...	...	...	...	...	...	...	...	...	...	600	105	...	...	...	...	705	...	..	...	..	...	.	100		.	100
Exchange compensation allowances.	1,881	565	638	984	675	1,279	419	..	6,441	2,317	668	1,609	27	634	770	790	565	...	7,380	2,006	1,053	477	1,096	1,103	930	531	668	814	8,678
II. Travelling allowances—																													
(a) Conservators ...	2,044	...	...	...	...	...	...	...	2,044	2,252	...	...	...	...	...	...	...	...	2,252	2,385	...	...	...	...	...	...	...	...	2,385
(b) Superior officers ..	4,580	1,305	1,141	3,726	2,111	3,438	928	1,056	18,285	2,972	1,259	4,322	910	1,116	1,312	3,437	1,196	427	16,951	3,994	2,018	1,952	2,239	1,456	3,043	1,686	955	887	18,230
(c) Subordinate forest and depot establishments ...	361	2,041	1,096	2,718	2,457	2,705	1,656	1,813	14,847	161	1,796	2,501	971	3,507	2,348	3,472	2,213	365	17,334	547	2,298	2,822	2,577	2,999	2,041	1,771	2,253	1,836	19,144
(d) Office establishments	2,736	433	215	885	1,076	888	312	669	7,214	1,541	412	617	222	470	272	509	404	141	4,588	2,161	131	474	607	872	558	806	413	522	6,544
III. Contingencies—																													
(a) Stationery ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
(b) Carriage of tents.	28	31	19	47	56	36	18	35	250	31	2	26	7	53	60	53	11	34	277	...	14	1	6	14		..	7	21	63
(c) Rents, rates and taxes	428	53	432	128	5	78	95	147	1,366	...	41	304	37	147	336	1	39	48	993	89	154	165	56	21	77	...	76	58	626
(d) Official postage ...	570	369	213	1,173	1,276	695	462	479	5,237	499	303	761	599	1,014	1,196	1,830	493	186	6,881	495	340	693	501	908	610	248	201	875	4,869
(e) Service telegrams.	159	90	35	119	373	140	11	42	978	29	3	4	6	34	43		3	...	225	120	76	6	24	16	28	66	11	28	375
(f) Sundries	2,186	1,025	878	2,213	2,176	1,651	1,075	782	11,986	1,689	1,184	1,592	1,049	1,420	799	1,853	511	183	10,280	1,412	966	1,101	1,157	841	468	882	303	511	7,643
Total B.—"Establishments" ...	56,635	23,448	18,711	41,846	34,507	42,712	21,286	22,904	2,61,999	55,313	24,412	49,407	15,197	36,749	30,660	42,734	20,425	3,381	2,78,281	46,183	38,226	28,612	32,268	32,946	32,091	22,108	21,417	25,148	2,78,999
Grand Total of Expenditure	58,666 28,806	41,747	33,770	66,064	75,144	84,271	48,356	31,202	4,39,220 28,806	1,06,626	52,478	78,913	26,747	76,676	51,748	1,24,867	31,899	6,533	5,56,487	73,691	79,394	63,169	80,887	48,134	62,375	46,820	60,355	49,151	5,63,576

* *Vide* Surveyor-General's letter No. 2074-S., dated 2nd August 1898.

MADRAS, 25th August 1898.

(Signed) J. O. B. POWER,
Chief Superintendent.

SUMMARY of Receipts and Expenditure during 1897–98 for each Circle and for the Presidency prepared in the Board's office from the Accountant-General's Statement.

Budget heads.	Northern Circle.	Central Circle.	Southern Circle.	Grand Total, Presidency.	
				1897–98.	1896–97.
1	2	3	4	5	6
RECEIPTS.	Rs.	Rs.	Rs.	Rs.	Rs.
I. Timber and other produce removed from the forests by Government Agency—					
(a) Timber	26,577	10,951	1,92,141	2,29,669	1,76,885
(b) Firewood and charcoal	5,198	1,41,216	27,005	1,73,419	1,88,079
(c) Bamboos	240	1,693	7,290	9,223	10,086
(d) Sandalwood	..	3,192	30,507	33,699	15,720
(e) Grass and other minor produce	344	391	31,556	32,291	34,837
Total, I	32,359	1,57,443	2,88,499	4,78,301	4,25,607
II. Timber and other produce removed from the forests by consumers or purchasers—					
(a) Timber	1,07,775	88,632	46,868	2,43,275	2,43,695
(b) Firewood and charcoal	47,286	1,42,196	77,714	2,67,196	2,85,220
(c) Bamboos	61,924	78,959	21,784	1,62,667	1,82,851
(d) Grazing and fodder grass	1,10,480	1,77,021	76,404	3,63,905	3,76,354
(e) Other produce	2,03,361	2,11,784	80,943	4,96,088	5,13,548
Total, II	5,30,826	6,98,592	3,03,713	15,33,131	16,01,668
III. Confiscated drift and waifwood	5,058	4,229	2,608	11,895	11,874
V. Miscellaneous—					
(a) Fines and forfeitures	978	2,671	524	4,173	7,698
(b) Refunds	..	..	..	..	..
(c) Other sources	30,449	25,899	67,266	1,23,614	1,42,070
Total, V	31,427	28,570	67,790	1,27,787	1,49,768
Grand Total, Receipts	5,99,670	8,88,834	6,62,610	21,51,114	21,88,917
EXPENDITURE.					
A.—Conservancy and Works.					
I. Timber and other produce removed from the forests by Government Agency—					
(a) Timber	12,633	4,990	41,439	59,062	67,287
(b) Firewood and charcoal	3,664	80,316	17,138	1,01,118	1,10,388
(c) Bamboos	272	835	3,644	4,751	4,576
(d) Sandalwood	..	202	2,554	2,756	2,645
(e) Grass and other minor produce	187	2,646	13,730	16,563	15,644
Total, A-I	16,756	88,989	78,505	1,84,250	2,00,540
II. Timber and other produce removed from the forests by consumers or purchasers	42,876	29,197	16,295	88,368	98,851
III. Confiscated drift and waif wood	761	341	290	1,392	2,491
V. Rent of leased forests and payments to shareholders in forests managed by Government	10,000	10	7,556	17,566	17,444
VI. Live-stock, stores, tools and plant—					
(a) Purchase of cattle	..	..	3,240	3,240	5,442
(b) Feed and keep of cattle	2,495	4	27,929	30,428	28,370
(c) Stores, tools and plant	6,894	8,590	8,920	24,404	11,816
Total, A-VI	9,389	8,594	40,089	58,072	45,628
VII. Communications and buildings—					
(a) Roads and bridges	11,649	7,010	15,030	33,689	47,268
(b) Buildings	15,708	7,893	20,604	44,205	48,342
(c) Other works	1,212	144	4,427	5,783	4,223
Total, A-VII	28,569	15,047	40,061	83,677	99,833
VIII. Demarcation, improvement and extension of forests—					
(a) Demarcation	14,534	14,659	8,540	37,733	37,124
(b) Cost of forest settlement, compensation for land and rights	3,248	1,659	6,452	11,359	9,318
(c) Surveys (1) Local surveys	8,248	4,162	5,211	17,621	19,546
(c) Surveys (2) Survey of India	28,806	45,014	26,687	1,00,507	82,638
(d) Working plans	185	260	915	1,360	1,644
(e) Sowing and planting	9,988	15,608	12,331	37,927	50,377
(f) Protection from fire	9,645	13,335	13,535	36,515	39,343
(g) Other works	18,781	29,364	19,976	68,121	70,887
Total, A-VIII	93,435	1,24,061	93,647	3,11,143	3,10,877

Summary of Receipts and Expenditure during 1897–98 for each Circle and for the Presidency prepared in the Board's office from the Accountant-General's Statement—*cont.*

Budget heads.	Northern Circle.	Central Circle.	Southern Circle.	Grand Total, Presidency.	
				1897–98.	1896–97.
1	2	3	4	5	6
EXPENDITURE—*cont.*					
A.—Conservancy and Works—cont.	Rs.	Rs.	Rs.	Rs.	Rs.
IX Miscellaneous—					
(*a*) Refunds	2,722	2,163	3,196	8,081	40,473
(*b*) Law charges	718	8,981	7	9,706	750
(*c*) Other charges	801	823	5,331	6,955	11,313
Total, A-IX ..	4,241	11,967	8,534	24,742	52,536
Total, A.—Conservancy and Works ..	2,06,027	2,78,206	2,84,977	7,69,210	8,28,200
B.—Establishments.					
I. Salaries—					
(*a*) Conservators	16,267	19,730	12,908	48,905	48,600
(*b*) Superior officers	84,281	86,690	97,572	2,68,543	2,64,508
(*c*) Subordinate forest and depot establishments.	59,857	71,543	63,676	1,95,076	1,56,910
(*d*) Office establishments	32,046	32,442	36,176	1,00,664	95,416
(*e*) Deputation and Special allowances ..	..	705	100	805	29,634
(*e*) Exchange compensation allowances ..	6,441	7,380	8,678	22,499	
Total, B-I ..	1,98,892	2,18,490	2,19,110	6,36,492	5,95,068
II. Travelling allowances—					
(*a*) Conservators	2,944	2,252	2,385	7,581	8,029
(*b*) Superior officers	18,285	16,951	18,230	53,466	50,522
(*c*) Subordinate forest and depot establishments.	14,847	17,334	19,144	51,325	44,236
(*d*) Office establishments	7,214	4,588	6,544	18,346	16,756
Total, B-II ..	43,290	41,125	46,303	1,30,718	1,19,543
III. Contingencies—					
(*a*) Stationery	..	..	..	..	..
(*b*) Carriage of tents and records	250	277	63	590	9,394
(*c*) Rents, rates and taxes	1,366	993	636	2,995	3,035
(*e*) Official postage and service telegrams ..	6,215	7,116	5,244	18,575	17,679
(*f*) Sundries	11,986	10,280	7,643	29,909	14,958
Total, B-III ..	19,817	18,666	13,586	52,069	45,066
Total, B.—Establishments ..	2,61,999	2,78,281	2,78,999	8,19,279	7,59,677
Grand Total of Expenditure ..	4,68,026	5,56,487	5,63,976	15,88,489	15,87,877
Surplus ..	1,31,644	3,32,347	98,634	5,62,625	6,01,040
Total ..	5,99,670	8,88,834	6,62,610	21,51,114	21,88,917

Annual Form No. 60.

Forest Department, Madras.

Outstandings and Liabilities on account of Contractors and Disbursers for the forest year 1897–98.

	District.	Department Debtor.			Department Creditor.			Balance due	
		At commencement of year.	Recoveries in cash and value of supplies and work done during the year.	At close of year.	At commencement of year.	Payments made during year.	At close of year.	To department (outstandings).	By department (liabilities).
		Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Northern Circle.	Conservator, Northern Circle	..	3,607 8 7	3,607 8 7	33 5 3	4,008 15 8	4,042 4 11	434 12 4	..
	Forest Settlement-officer, Ganjám, &c., districts.	..	699 12 7	699 12 7	41 10 2	659 12 10	701 7 0	1 10 5	..
	Forest Settlement-officer, Nellore, &c., districts.	..	741 3 5	741 3 5	26 0 9	762 15 5	789 0 2	47 12 9	..
	Forest School, Dehra Dun	..	..	..	78 10 8	60 0 0	18 10 8	18 10 8	..
	Ganjám	..	30,638 7 0	30,638 7 0	606 15 10	31,407 15 4	32,014 15 2	1,376 8 2	..
	Vizagapatam	..	24,913 3 11	24,913 3 11	386 0 0	25,554 8 7	25,940 8 7	1,027 4 8	..
	Gódávari	..	50,751 1 10	50,751 1 10	2,784 5 1	50,639 8 0	53,423 13 1	2,672 11 3	..
	Kistna	..	69,008 7 1	69,008 7 1	2,722 7 0	68,176 1 10	70,898 8 10	1,890 1 9	..
	Kurnool	..	67,500 11 0	67,500 11 0	1,983 9 1	67,155 1 1	69,138 10 2	1,637 15 2	..
	Bellary	..	29,598 3 8	29,598 3 8	901 1 6	29,596 10 2	30,497 11 8	899 8 0	..
	Anantapur	..	23,306 10 2	23,306 10 2	422 8 10	23,916 7 1	24,338 15 11	1,032 5 9	..
	Total	..	3,00,765 5 3	3,00,765 5 3	9,986 10 2	3,01,818 0 0	3,11,804 10 2	11,039 4 11	..
Central Circle.	Conservator, Central Circle	..	808 0 5	808 0 5	62 7 9	791 3 10	853 11 7	45 11 2	..
	Forest Settlement-officer, North Arcot, &c., districts	..	140 6 1	140 6 1	0 0 6	145 1 1	145 1 7	4 11 6	..
	Forest, Settlement-officer Trichinopoly, &c., districts	..	2,343 10 9	2,343 10 9	9 3 1	2,338 10 10	2,347 13 11	4 3 2	..
	Nellore	..	38,274 11 11	38,274 11 11	1,433 7 8	38,683 14 7	40,117 6 3	1,842 10 4	..
	Cuddapah	..	67,754 9 5	67,754 9 5	2,309 5 9	66,276 8 1	68,585 13 10	831 4 5	..
	Chingleput	..	25,609 4 8	25,609 4 8	611 14 7	25,797 12 2	26,409 10 9	800 6 1	..
	North Arcot	..	61,409 3 2	61,409 3 2	3,857 3 2	59,194 13 4	63,052 0 6	1,642 13 4	..
	South do.	..	41,319 9 8	41,319 9 8	2,921 11 7	39,438 14 9	42,360 10 4	1,041 0 8	..
	Salem	..	1,19,788 13 0	1,19,788 13 0	6,226 12 2	1,17,340 12 10	1,23,567 9 0	3,778 12 0	..
	Trichinopoly	..	20,897 5 4	20,897 5 4	461 6 3	20,684 15 6	21,146 5 9	249 0 5	..
	Tanjore	..	9,065 11 2	9,065 11 2	500 3 3	8,696 11 4	9,196 14 7	131 3 5	..
	Total	..	3,87,411 5 7	3,87,411 5 7	18,393 11 9	3,79,389 6 4	3,97,783 2 1	10,371 12 6	..
Southern Circle.	Conservator, Southern Circle	..	11,638 6 2	11,638 6 2	40 5 1	11,623 0 11	11,663 6 0	24 15 10	..
	Forest Settlement-officer, Malabar, &c., districts.	..	682 12 1	682 12 1	— 8 3 9	740 7 1	732 3 4	49 7 3	..
	Forest Settlement-officer, Trichinopoly, &c., districts	..	2,343 11 1	2,343 11 1	9 3 2	2,338 10 9	2,347 13 11	4 2 10	..
	Forest School, Dehra Dun	..	..	..	138 5 4	60 0 0	198 5 4	198 5 4	..
	The Nilgiris	..	53,162 13 9	53,162 13 9	1,086 1 1	53,348 0 10	54,434 1 11	1,271 4 2	..
	North Coimbatore	..	68,667 12 2	68,667 12 2	1,538 5 0	69,012 0 5	70,550 5 5	1,882 9 3	..
	South do.	..	46,680 4 0	46,680 4 0	1,597 10 0	46,917 0 10	48,514 10 10	1,834 6 10	..
	Madura	..	34,560 5 9	34,560 5 9	1,116 10 7	32,793 2 4	33,909 12 11	..	650 8 10
	Tinnevelly	..	48,969 3 6	48,969 3 6	5,046 0 11	51,246 0 6	56,292 1 5	7,322 13 11	..
	North Malabar	..	30,607 11 5	30,607 11 5	1,159 2 2	31,454 7 4	32,613 9 6	2,005 14 1	..
	South do.	..	53,943 1 3	53,943 1 3	1,378 5 3	54,587 12 6	55,966 1 9	2,023 0 6	..
	South Canara	..	28,704 13 5	28,704 13 5	1,461 6 8	28,332 14 10	29,794 5 6	1,089 8 1	..
	Total	..	3,79,960 14 7	3,79,960 14 7	14,563 3 6	3,82,453 10 4	3,97,016 13 10	17,706 8 1	650 8 10

Madras,
30th August 1898.

(Signed) P. V. KRISHNASWAMI,
Offg. Chief Superintendent.

ANNUAL FORM No. 61.

Forest Department, Madras Presidency.

REVENUE received and Outstandings on account of Revenue during the forest year 1897-98.

	District.	Particulars.	Outstandings at commencement of year.	Value of sales and other revenue during year.	Total.	Amount realized during year.	Balance due to the department at end of year.
			RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
Northern Circle.	Direction	Timber and other forest produce.	..	11 4 0	11 4 0	11 4 0	..
	Ganjám	Do. do. ..	0 2 3	4,962 13 4	44,962 15 7	44,962 15 7	..
	Vizagapatam ..	Do. do. ..	1,601 0 2	26,513 7 10	28,114 8 0	26,513 7 10 +* 1,601 0 2	..
	Gódávari	Do. do. ..	159 2 0	1,04,649 8 6	1,04,808 10 6	1,04,516 1 9	292 8 9
	Kistna	Do. do. ..	398 5 0	1,04,395 5 2	1,04,793 10 2	1,03,798 13 6	994 12 8
	Kurnool	Do. do. ..	3,179 9 0	1,11,499 11 9	1,14,679 4 9	1,12,241 14 2	2,437 6 7
	Bellary	Do. do. ..	35,881 15 0	1,00,758 14 11	1,36,640 13 11	1,01,391 4 11	35,249 9 0
	Anantapur	Do. do. ..	6,716 14 9	1,05,560 6 1	1,12,277 4 10	71,044 4 10	41,233 0 0
		Total ..	47,937 0 2	5,98,351 7 7	6,46,288 7 9	5,64,480 2 7 + 1,601 0 2	80,207 5 0
Central Circle.	Direction	Timber and other forest produce.	..	41 11 6	41 11 6	41 11 6	..
	Nellore	Do. do. ..	15,075 4 10	85,754 15 8	1,00,830 4 6	96,900 4 6	3,930 0 0
	Cuddapah	Do. do. ..	19,393 4 9	1,06,268 14 5	1,25,662 3 2	1,20,325 4 10	5,336 14 4
	Chingleput	Do. do. ..	2,776 11 4	65,861 11 11	68,638 7 3	53,293 5 5	15,345 1 10
	North Arcot ..	Do. do. ..	35,544 10 10	1,71,455 2 11	2,06,999 13 9	1,43,149 12 5 + † 81 11 2	63,768 6 2
	South Arcot ..	Do. do. ..	2,201 15 3	1,34,669 10 1	1,36,871 9 4	1,09,660 0 4	27,211 9 0
	Salem	Do. do. ..	23,876 5 9	2,80,534 7 10	3,04,410 13 7	2,88,571 8 11 +‡ 475 6 10	15,363 13 10
	Trichinopoly ..	Do. do. ..	22,702 6 5	54,019 9 9	76,722 0 2	57,877 8 8 + § 24 14 0	18,819 9 6
	Tanjore	Do. do. ..	692 6 6	18,117 1 8	18,809 8 2	17,152 10 2	1,655 14 0
		Total ..	1,22,263 1 8	9,16,723 5 9	10,38,986 7 5	8,86,972 2 9 + 582 0 0	1,51,432 4 8
Southern Circle.	Direction	Timber and other forest produce.	..	18 10 4	18 10 4	18 10 4	..
	The Nilgiris ..	Do. do. ..	6,037 13 2	74,031 13 11	80,069 11 1	78,446 13 3	1,622 13 10
	North Coimbatore ..	Do. do. ..	1,884 7 3	98,324 8 1	1,00,208 15 4	99,680 3 4	528 12 0
	South do. ..	Do. do. ..	2,011 12 7	1,28,462 13 10	1,30,474 10 5	1,25,167 2 6	5,307 7 11
	Madura	Do. do. ..	2,768 13 4	1,23,980 5 8	1,26,749 3 0	64,546 11 2 +‖ 2,783 12 1	59,418 11 9
	Tinnevelly	Do. do. ..	11,397 14 7	78,905 3 2	90,303 1 9	84,778 0 9	5,525 1 0
	North Malabar ..	Do. do. ..	2,553 15 0	50,516 6 11	53,070 5 11	51,861 3 0	1,209 2 11
	South do. ..	Do. do. ..	1,482 0 0	1,25,338 13 1	1,26,820 13 1	1,19,342 1 1	7,478 12 0
	South Canara ..	Do. do. ..	1,204 7 0	61,014 2 9	62,218 9 9	61,199 9 2	1,019 0 7
		Total ..	29,341 2 11	7,40,592 13 9	7,69,934 0 8	6,85,040 6 7 + 2,783 12 1	82,109 14 0

* Written off in Government Order, No. 1038, dated 10th December 1897.
† Written off in Government Order, No. 763, Revenue, dated 7th September 1897.
‡ Written off in Government Order, No. 503, Revenue, dated 29th June 1897.
§ As per Board's Proceedings, No. 736, Land Revenue, dated 7th September 1897.
‖ Rupees 798-12-1 written off in Government Order, No. 763, dated 7th September 1897, and Rs. 1,985 written off in Government Order, No. 1038, dated 10th December 1897.

MADRAS,
30th August 1898.

(Signed) P. V. KRISHNASWAMI,
Offg. Chief Superintendent.

Annual Form No. 62.

Forest Department, Madras Presidency.

Financial Results of the year 1897-98.

District.	Timber and other produce removed from the forests by Government Agency.		Other revenue		Formation, protection and improvement of forests.	Total.	
	Receipts.	Charges.	Receipts.	Charges.	Charges.	Receipts.	Charges.
Northern Circle.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Ganjám	10,991	6,722	44,294	21,146	19,745	55,285	47,613
Vizagapatam	1,475	2,671	27,109	17,105	17,905	28,584	37,681
Gódávari	3,475	1,735	98,718	50,527	23,579	1,02,193	75,841
Kistna	2,426	1,221	1,01,876	38,158	47,499	1,04,302	86,878
Kurnool	13,839	12,507	99,804	49,338	62,966	1,13,643	1,24,811
Bellary	3,714	5,074	1,07,656	26,505	24,599	1,11,370	56,178
Anantapur	..	6	84,293	23,811	15,207	84,293	39,024
Total ..	35,920	29,936	5,63,750	2,26,590	2,11,500	5,99,670	4,68,026
Central Circle.							
Cuddapah	7,428	7,632	1,17,830	47,356	51,465	1,25,258	1,06,453
Nellore	28,742	24,696	61,149	15,607	18,452	89,891	58,755
Chingleput	2,941	3,405	48,700	14,004	12,846	51,641	30,255
North Arcot	13,156	8,955	1,24,455	37,245	39,300	1,37,611	85,500
South Arcot	7,822	7,470	1,07,152	24,633	43,442	1,14,974	75,545
Salem	87,745	67,842	2,03,838	38,533	47,511	2,91,583	1,53,886
Trichinopoly	9,536	5,464	51,797	17,902	14,812	61,333	38,178
Tanjore	73	398	16,470	3,783	3,734	16,543	7,915
Total ..	1,57,443	1,25,862	7,31,391	1,99,063	2,31,562	8,88,834	5,56,487
Southern Circle.							
South Canara	22,413	23,699	32,262	12,892	17,056	54,675	53,647
North Malabar . ..	33,244	33,734	21,595	1,262	16,110	54,839	51,106
South Malabar	95,237	39,872	22,149	26	25,952	1,17,386	65,850
The Nilgiris	50,504	47,296	25,446	4,578	34,714	75,950	86,588
North Coimbatore ..	34,200	23,875	76,298	4,325	69,782	1,10,498	97,982
South Coimbatore ..	40,828	46,190	61,999	9,092	32,932	1,02,827	88,214
Madura	1,409	5,043	63,885	6,084	41,410	65,294	52,537
Tinnevelly	10,664	15,288	70,477	4,169	48,595	81,141	68,052
Total ..	2,88,499	2,34,997	3,74,111	42,428	2,86,551	6,62,610	5,63,976
Grand Total ..	4,81,862	3,90,795	16,69,252	4,68,081	7,29,613	21,51,114	15,88,489

ANNUAL FORM No. 64.

Forest Department, Madras Presidency.

ABSTRACT showing the Value of Live-stock, Stores, Tools and Plant for 1897–98.

	Districts.	Surveying, &c., instruments				Tools				Machinery				Furniture				Building materials, small stores, tents, boats, &c.			
		On hand at commencement of the year.		On hand at end of the year.		On hand at commencement of the year.		On hand at end of the year.		On hand at commencement of the year.		On hand at end of the year.		On hand at commencement of the year.		On hand at end of the year.		On hand at commencement of the year.		On hand at end of the year	
		Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.
1		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
			Rs.		Rs.		Rs.		Rs.		Rs.		Rs.		Rs.		Rs.		Rs.		Rs.
Northern Circle.	Direction	23	370	24	452	6	40	11	27	..	..	..	..	75	625	75	625	..	..	5	815
	Ganjám	46	639	45	535	270	133	301	154	..	..	..	..	83	355	95	1,423	..	..	..	..
	Vizagapatam ..	42	811	42	811	320	290	299	269	..	..	..	..	136	1,330	136	1,330	..	..	6	217
	Gódávari	90	467	111	517	573	1,135	581	1,308	1	102	1	102	299	1,853	435	2,186	14	2,356	21	3,756
	Kistna	74	873	73	890	501	282	501	263	..	..	..	..	114	512	130	594	1	1,550	8	2,455
	Kurnool	79	1,010	80	803	1,017	1,092	1,003	966	..	..	..	..	135	713	135	600	6	1,173	8	2,223
	Bellary	97	278	97	263	468	615	547	603	..	..	..	..	61	408	64	450	..	..	6	857
	Anantapur	53	220	53	210	247	710	293	669	..	..	..	..	107	613	116	661	..	..	4	664
	Total, Northern Circle ..	504	4,668	525	4,481	3,402	4,347	3,536	4,259	1	102	1	102	1,010	6,409	1,186	7,869	21	5,079	58	10,957
Central Circle.	Direction	43	783	43	744	4	16	4	15	..	..	..	..	119	916	120	837	..	..	5	780
	Cuddapah	124	1,001	125	1,058	550	1,470	580	1,540	1	13,967	1	9,636	129	926	129	960	..	..	..	..
	Nellore	57	411	69	622	419	976	419	878	247	35,031	247	35,031	85	528	92	652	..	..	4	682
	Chingleput	20	197	19	153	420	643	414	550	..	..	..	..	78	495	117	556	..	..	4	682
	North Arcot	41	614	44	584	898 cwt. 33	654	837 cwt. 33	593	15	73	14	63	265	730	285	850	4	176	6	579
	South Arcot	117	1,828	115	1,825	524	324	494	303	7	401	7	401	168	1,820	172	1,850	3	421	6	718
	Salem	137	1,470	135	1,450	1,658	3,085	1,604	2,823	2	21	2	21	381	1,872	349	1,776	..	..	..	..
	Trichinopoly	54	485	57	510	1,056	613	1,029	542	2	10	2	5	125	701	129	726	2	217	4	618
	Tanjore	20	90	20	90	67	41	69	52	..	..	..	..	29	270	34	298	..	..	2	217
	Total, Central Circle ..	613	6,879	631	7,036	5,596 cwt. 33	7,822	5,450 cwt. 33	7,296	274	49,503	273	45,157	1,379	8,268	1,427	8,505	9	814	31	4,276
Southern Circle.	Direction	42	504	41	444	1	30	2	45	..	..	..	..	102	769	108	827	5	764	5	764
	South Canara	115	1,141	116	1,146	592	782	542	788	..	..	..	..	160	1,329	166	1,343	2	225	6	725
	North Malabar ..	70	1,355	72	1,462	626	1,423	586	1,379	..	..	..	..	87	692	108	906	..	..	..	..
	South do.	33	875	33	875	739	845	681	770	17	145	20	161	95	709	95	766	..	..	4	412
	The Nilgiris	65	1,064	64	1,062	627	1,588	659	1,505	1	250	1	200	143	1,182	151	1,133	3	278	6	679
	North Coimbatore ..	71	1,344	70	1,236	567	1,144	532	923	..	..	..	..	174	1,372	168	1,244	81	272	97	1,418
	South do. ..	84	1,534	89	1,546	588	584	660	887	6,560	* 247	7,766 19,650 ft.	* 16,993	582	2,788	579	2,589	..	..	9	1,063
	Madura	58	1,571	82	1,838	1,070	692	166	199	..	..	5	6	212	1,104	199	1,529	5	645	2,016	1,689
	Tinnevelly	102	1,592	105	1,611	541	1,316	606	1,421	15	289	15	289	460	2,848	468	3,114	1	428	1	428
	Total, Southern Circle ..	640	10,980	672	11,220	5,351	8,404	4,434	7,917	6,593	931	7,807 19,650 ft.	17,649	2,015	12,793	2,042	13,451	97	2,612	2,144	7,178
	Total, Presidency ..	1,757	22,527	1,828	22,737	14,349 cwt. 33	20,573	13,420 cwt. 33	19,472	6,868	50,536	8,081 19,650 ft.	62,908	4,404	27,470	4,655	29,825	127	8,505	2,233	22,411

* The cost of tramway materials has not been given.

N.B.—The difference between the closing balance of the previous year and the opening balance of the year under review is due to revised figures.

Abstract showing the value of Live-stock, Stores, Tools and Plant for 1897-98—*cont.*

	Districts.	Buildings				Live-stock				Miscellaneous				Total.					
		On hand at commencement of the year.		On hand at end of the year.		On hand at commencement of the year.		On hand at end of the year.		On hand at commencement of the year.		On hand at end of the year.		On hand at commencement of the year.		On hand at end of the year.		Difference in value	
		Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	In favour of the year.	Against the year.
		22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
			Rs.		Rs.		Rs.		Rs.		Rs.		Rs.		Rs.		Rs.	Rs.	Rs.
Northern Circle.	Direction	..	..	..	..	1	1,600	..	..	1	103	1	103	106	2,738	116	2,022	..	716
	Ganjám	26	15,799	29	15,886	..	..	..	..	..	..	..	..	425	16,976	470	17,998	1,022	..
	Vizagapatam	18	1,035	(*a*) 18	(*a*) 1,035	..	..	1	(*b*) ..	199	407	199	407	715	3,873	701	4,069	196	..
	Gódávari	49	28,832	60	29,656	1	(*b*) ..	2	(*b*) ..	227	335	269	342	1,254	35,080	1,480	37,867	2,787	..
	Kistna	71	11,740	69	11,081	..	..	..	..	15	361	15	337	776	15,318	796	15,620	302	..
	Kurnool	58	32,549	60	33,593	1	1,600	1	1,600	20	165	30	165	1,316	38,302	1,317	39,950	1,648	..
	Bellary	22	3,862	22	3,729	..	..	..	..	33	142	33	128	681	5,305	769	6,030	725	..
	Anantapur	16	15,619	16	15,619	..	..	..	..	..	..	..	..	423	17,162	482	17,793	631	..
	Total, Northern Circle.	260	1,09,436	274	1,10,599	3	3,200	4	1,600	495	1,513	547	1,482	5,696	1,34,754	6,131	1,41,349	6,595	..
Central Circle.	Direction	..	..	..	..	..	..	..	..	38	703	38	639	204	2,418	210	3,015	597	..
	Cuddapah	110	20,503	115	20,618	2	56	2	56	..	..	..	..	916	37,923	952	33,868	..	4,055
	Nellore	10	3,685	10	3,537	..	..	..	..	301	4,713	317	6,419	1,119	45,354	1,158	47,821	2,467	..
	Chingleput	18	5,004	20	5,970	..	..	..	..	34	33	43	66	570	6,372	617	7,977	1,605	..
	North Arcot	42	8,414	46	9,450	..	..	..	..	..	..	..	..	1,265 cwt. 33	10,661	1,232 cwt. 33	12,119	1,458	..
	South Arcot	20	19,803	20	19,803	..	..	..	..	509	1,547	508	1,546	1,348	26,144	1,322	26,446	302	..
	Salem	19	15,489	21	15,900	..	..	..	..	16	1,002	22	1,512	2,213	22,939	2,133	23,482	543	..
	Trichinopoly	8	2,092	8	2,670	..	..	..	..	1,016	785	1,291	922	2,263	4,903	2,520	5,993	1,090	..
	Tanjore	7	586	7	631	..	..	..	..	44	101	45	105	167	1,088	177	1,393	305	..
	Total, Central Circle.	234	75,576	247	78,579	2	56	2	56	1,958	8,884	2,264	11,209	10,065 cwt. 33	1,57,802	10,321 cwt. 33	1,62,114	4,312	..
Southern Circle.	Direction	..	..	..	..	..	..	..	..	674	600	676	610	824	2,667	832	2,690	23	..
	South Canara	14	7,556	14	7,593	..	..	2	(*b*) ..	649	2,082	635	1,894	1,532	13,115	1,481	13,489	374	..
	North Malabar	..	..	..	..	22	37,225	14	26,400	..	..	..	..	805	40,695	780	30,147	..	10,548
	South do.	28	36,295	32	39,678	21	35,245	16	26,700	210	1,382	222	1,437	1,143	75,496	1,103	70,799	..	4,697
	The Nilgiris	65	6,767	63	9,354	7	7,900	7	7,900	23	198	23	198	934	19,227	974	22,031	2,804	..
	North Coimbatore	51	16,188	57	18,339	..	..	..	..	340	528	107	253	1,284	20,848	1,031	23,413	2,565	..
	South do.	53	31,483	53	29,909	9	22,500	8	18,300	148	842	142	987	8,024	59,978	9,306 19,650 ft.	72,274	12,296	..
	Madura	43	21,925	52	25,211	..	..	..	..	..	..	541	558	1,388	25,937	3,061	31,030	5,093	..
	Tinnevelly	115	27,443	118	28,763	..	..	..	..	..	..	..	..	1,234	33,916	1,313	35,626	1,710	..
	Total, Southern Circle.	369	1,47,657	389	1,58,847	59	1,02,870	47	79,300	2,044	5,632	2,346	5,937	17,168	2,91,879	19,650 ft. 19,881	3,01,499	9,620	..
	Total, Presidency	863	3,32,669	910	3,48,025	64	1,06,126	53	80,956	4,497	16,029	5,157	18,628	32,929 cwt. 33	5,84,435	36,333 cwt. 33 19,650 ft.	6,04,962	20,527	..

(*a*) Figures for the year not having been reported on, those for the preceding year have been adopted. (*b*) Value not reported.

N.B.—The difference between the closing balance of the previous year and the opening balance of the year under review is due to revised figures.

ANNUAL FORM No. 63.

Forest Department, Madras Presidency.

STATEMENT of Elephants during the year 1897-98.

District.	Names.	When purchased or otherwise obtained by Government.	Average cost of monthly keep including servants and food.			
1	2	3	4			

PART I.

Elephants in possession of the reporting Officers throughout the year.

				Rs.	A.	P.
Gódávari ..	Surat Pari	Purchased in November 1894 in Sonepur fair.	Per head ..	63	8	2
Kurnool	Byragi Piari	Do. do. ..	Do. ..	65	0	0
North Malabar ..	1. Phyllis	Purchased in January 1878	Do. ..	47	15	7
	2. Peri	Captured in April 1889	Do. ..	51	1	11
	3. Kalyani	Purchased in October 1889	Do. ..	56	1	9
	4. Lallameah	Captured in March 1891	Do. ..	53	13	6
	5. Cherry..	Do. in May 1892	Do. ..	* 48	5	10
	6. Krishna	Do. on 3rd March 1896	Do. ..	45	13	8
	7. Kunjunni	Do. on 17th March 1897 ..	Do. ..	45	0	2
	8. Pyramus	Do. on 15th April 1897	Do. ..	46	11	3
	9. Minnie	Do. on 8th June 1897	Do. ..	59	12	10
South Malabar ..	1. Vixen	Transferred from Wynaad in 1882 ..	Do. ..	37	0	2
	2. Peyru					
	3. Samson	Purchased from Mr. Morgan in 1885..				
	4. Eva					
	5. Theebow	Captured on 3rd January 1886 ..				
	6. Juno	Do. on 17th February 1886 ..				
	7. Jupiter	Do. on 9th January 1887				
	8. Maharajah	Transferred from Wynaad on 29th September 1888.				
	9. Gordon	Captured on 11th February 1889 ..				
	10. Eddy	Do. on 10th February 1890 ..				
	11. Loo	Do. on 21st April 1890				
	12. Hercules	Do. on 24th December 1890 ..				
	13. Tippu	Do. on 25th February 1893 ..				
	14. May	Do. on 23rd November 1894 ..				
	15. Abdul	Do. on 4th October 1891 and transferred from South Coimbatore in June 1896.				
The Nilgiris ..	1. Latchmi	Transferred from the Anamalais on the 30th January 1882	Do. ..	52	13	10
	2. Chinna Latchmi ..					
	3. Akbar Baksh	Born in 22nd February 1888				
	4. Meenatchi	Do. in 9th April 1889				
	5. N. Latchmi	Purchased in September 1894				
	6. Seetha	Transferred from North Malabar in June 1896.				
	7. Zahara	Captured on 14th March 1896 and transferred from North Malabar on the 12th November 1896.				
South Coimbatore. †	1. Chloe	Arrived from North Malabar on 28th June 1888.	Do. ..	41	4	6
	2. Karthiyayini	Arrived from South Malabar, August 1888.				
	3. Sinna Rani	Do. do. on 19th August 1891.				
	4. Phyllis, II	Captured on 25th September 1892 ..				
	5. Jumbo, II					
	6. Ranger	Do. on 23rd July 1893				
	7. Dora	Captured on 16th March 1894 and transferred from South Malabar on 25th December 1896.				

* The general average per animal comes to Rs. 51-4-0 as per Accountant-General's audited figures but as per Collector's figures it comes to Rs. 50-8-6.

† The Collector's statement gives the total charges under A-VI (*b*) as Rs. 4,503 whereas according to the Accountant-General's audited figures the total charges were Rs. 4,863. No explanation has been given by the Collector for the variation.

Statement of Elephants during the year 1897-98—*cont.*

District.	Names.	When purchased or otherwise obtained by Government.	Average monthly cost of keep including servants and food.			How disposed of.
1	2	3	4			5
		PART II.				
		Elephants received in the year.				
				RS.	A. P.	
Gódávari..	Captain Gunning ..	Purchased in July 1888 and transferred from direction Northern Circle on 19th November 1897.	Per head.	55	3 6	....
Vizagapatam.	Ethel	Captured on 18th April 1895 and transferred from North Malabar on 3rd December 1897.*	Do.	39	11 5	....
South Canara.	Moideen Khan ..	Captured on 3rd January 1896 and transferred from North Malabar in September 1897.	Do.	52	14 4	....
	Padmini	Captured on 8th February 1896 and transferred from North Malabar in September 1897.	Do.	52	14 4	....
North Malabar.	1. Hyder Ali ..	Captured on 8th February 1898.	Do.	52	13 9	....
	2. Zelica	Do. on 17th ,, ,,	Do.	57	6 7	....
	3. Isabella	Do. Do. ,, ,,	Do.	50	12 10	....
	4. Paris	Do. Do. ,, ,,	Do.	† 34	0 10	....
	5. Helen	Do. Do. ,, ,,	Do.	† 32	5 3	....
	6. Nurmahal ..	Do. on 25th ,, ,,	Do.	45	4 0	....
	7. Chakravarthini ..	Do. on 10th March ,,	Do.	42	3 6	....
South Malabar.	1. Rose	Do. on 8th February ,,	Do.	12	13 8	....
South Coimbatore.	1. Bixa	Do. on 4th July 1897.	Do.	10	0 0	....
	2. Sirdar	Do. on 9th September ,,	Do.	8	6 0	....
	3. Parvathi ..	Retransferred from South Malabar on 23rd June 1898.	Do.	13	0 11	....
		PART III.				
		Elephants gone off the list during the year.				
Conservator, Northern Circle.	Captain Gunning ..	Purchased in July 1888 ..	Per head.	85	6 5	Transferred to Gódávari on 19th November 1897.
North Malabar.	1. Ethel	Captured on 18th April 1895 ..	Do.	43	15 6	Transferred to Vizagapatam.
	2. Moideen Khan.	Do. on 3rd Jan. 1896 ..	Do.	53	3 11	Transferred to South Canara.
	3. Padmini ..	Do. on 8th Feb. 1896.	Do.	51	5 4	
	4. Mothy	Do. on 22nd ,, ,,	Do.	‡572	13 6	Transferred to Police Department.
	5. Kadar Buksh ..	Do. on 29th ,, ,,	Do.	51	4 4	Died on 20th June 1898.
	6. Thisbee	Do. on 15th April ,,	Do.	47	3 0	Sold on 10th December 1897.
	7. Ganapathy ..	Do. on 23rd Jan. 1897.	Do.	38	11 6	
	8. Josephine ..	Do. on 9th March ,,	Do.	‡231	15 1	Transferred to the Agent to the Governor, Gódávari.
	9. Sibil	Do. on 19th ,, ,,	Do.	‡182	15 9	
	10. Wilkie	Do. on 9th ,, ,,	Do.	23	3 6	Sold on 10th July 1897.
	11. Arthur	Do. on 7th April ,,	Do.	23	3 3	
	12. Darsie	Do. on 8th June ,,	Do.	23	3 6	
	13. Donald	Do. on 13th ,, ,,	Do.	36	6 2	Sold on 10th December 1897.
	14. Paris	Do. on 17th Feb. 1898.	Do.	§ 34	0 10	Sold on 29th March 1898.
	15. Helen	Do. on 17th ,, ,,	Do.	§ 32	5 3	
South Malabar.	1. Mars	Do. on 11th Jan. 1896 ..	Do.	29	6 5	Sold in December 1897.
	2. Charlie	Do. in February 1893 and transferred from North Malabar in August 1894.	Do.	29	9 7	
	3. Venus	Captured on 1st April 1893.	Do.	32	9 7	
	4. Maharani ..	Do. on 2nd March ,,	Do.	33	12 9	
	5. Jessie	Do. on 10th Dec. 1891 ..	Do.	32	6 5	
	6. Parvathi ..	Transferred from South Coimbatore in August 1881.	Do.	43	14 7	Retransferred to South Coimbatore in June 1898.
South Coimbatore.	1. Sankara ..	Arrived from North Malabar on 28th June 1888.	Do.	48	15 2	Died on 1st February 1898.
	2. Peria Rani ..	Arrived from South Malabar in May 1889.	Do.	44	12 9	Temporarily transferred to Public Works Department on 25th May 1898.
	3. Bixa	Captured on 4th July 1897 ..	Do.	10	0 0	Died on 20th June 1898 on its way to South Coimbatore on transfer.
	4. Sirdar	Do. on 9th Sept ,, ..	Do.	8	6 0	Died on 7th March 1898.

* Arrived in the middle of March 1898.

† Represents cost of keep of the animals from the date of capture to the date of sale, viz., 29th March 1898.

‡ Represents cost of upkeep of the animal till the date of disposal. The average cannot be given as the date on which the animal was disposed of has not been reported.

§ Represents cost of keep of the animals from the date of capture to the date of sale.

GOVERNMENT OF MADRAS.

REVENUE DEPARTMENT.

READ—the following Proceedings of the Board of Revenue (Land Revenue), Forest No. 557, dated 8th December 1898:—

Resolution—Forest No. 557, dated 8th December 1898.

The Board submits to Government, the progress report of Forest Administration in the Madras Presidency for the year ending 30th June 1898.

2. In accordance with the last clause of section 258 of the Forest Code the report was drawn up by Mr. J. W. Cherry, the Acting Senior Conservator of Forests.

3. Government Order, No. 585, Revenue, dated 10th October 1898, approving with certain modifications the proposals of the Board of Revenue for the curtailment of some of the returns appended to the annual report, was received too late to permit the adoption of the changes approved in the report now submitted. The Board doubts also whether it was not the intention of Government to await the final orders of the Government of India on the matter.

4. The Board regrets the delay in the submission of the report. Several statistical returns were not received from the districts in time and reminders had to be issued, and references made for further information. The districts most to blame are Ganjám, North Malabar and Vizagapatam from which some of the returns were received so late as 12th September, 17th September and 2nd October 1898, respectively, the due date being 15th August. The Conservator was consequently unable finally to pass the proofs submitted to the Forest Member until the 2nd December 1898.

(True Extract.)

(Signed) LIONEL DAVIDSON,
Acting Secretary.

To the Secretary to Government, Revenue Department,
with three copies of the report.

ORDER—No. 222, Revenue, dated 31st March 1899.

Forest No. 60.

With its Proceedings read above, the Board submits its report on the administration of the Forest department, for the forest year 1897–98.

In order to secure a due notice of the technical operations of the department the preliminary compilation of the report has been as usual entrusted to the senior Conservator on duty. The report and its appended statements record in detail the progress made in every branch of forest administration during the year. His Excellency the Governor in Council will proceed to notice the more salient features of the year's work.

Extension and Constitution of State Forests.

2. *Alteration of area.*—The following abstract compares the areas of reserved forests and reserved lands at the beginning and at the end of the year under review :—

—	Area on 1st July 1897.	Area added during 1897-98.	Area excluded during 1897-98.	Net increase or decrease.	Area on 30th June 1898.
	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.
Reserved forest	13,138	681	44	+ 637	13,775
Do. lands	5,769	524	815	— 291	5,478
Total ..	18,907	1,205	859	+ 346	19,253

It will be seen that the net result is an addition of 637 square miles of reserved forests and a deduction of 291 square miles of reserved lands from the area under the control of the department. The corresponding figures for the preceding year were an addition of 750 square miles of reserved forests and a deduction of 921 square miles of reserved lands. The percentage on the 30th June 1898 of the reserved area to the total unoccupied area excluding zamindari and whole inam villages and minor inams in Government villages varied from 74·53 per cent. in the Nilgiris to 2·54 per cent. in Tanjore and averaged 37·21 per cent. for the whole Presidency.

3. *Forest Settlement.*—The work of forest settlement did not make quite as much progress as was to be desired. One hundred and thirty-two blocks with an extent of 652 square miles were finally constituted reserved forests during the year as against 136 blocks of 845 square miles in the previous year; and there remained at the end of the year 477 blocks comprising an area of 3,827 square miles finally to be constituted reserved forest. The following statement exhibits the areas finally constituted as reserved forest during the past five years :-

—	1894-95.		1895-96.		1896-97.		1897-98.	
	Number of blocks.	Area in square miles.	Number of blocks.	Area in square miles.	Number of blocks.	Area in square miles.	Number of blocks.	Area in square miles.
Finally constituted reserved forests.	225	680	185	858	136	845	132	652

4. The causes delaying settlement are stated in appendix B to the report. Many are unavoidable ; but the Government is constrained to agree with the Board that there is still room for improvement in the outturn of work by the Special Forest Settlement-officers. A reference to appendix B shows that no less than 180 blocks await settlement of claims, final report or inspection by the Forest Settlement-officer. A satisfactory feature of the year's work, however, was the final disposal of several long-pending blocks in Ganjám, Gódávari, Cuddapah, Nellore and South Canara.

5. Fair progress was made in notifying further selections for reservation. One hundred and twenty-eight blocks with an area of 515 square miles were initially notified as compared with 175 blocks with an area of 402 square miles so notified in the previous year. Final schemes for reservation have, however, now been approved for nearly all the districts and the Government is inclined to think that greater progress in the initial notification of blocks would render possible a more economical disposition of the Forest Settlement-officers' time.

6. From paragraph 12 of the report it appears that a good deal of survey work was done departmentally. It is noted that, as in the preceding year, the outturn of work in preparing and revising sketch-maps of proposed reserves was satisfactory. In the preliminary demarcation of boundaries, progress was not so rapid, only 1,456 miles having been demarcated as against 1,671 miles in the previous year. The cost per mile, however, fell from Rs. 3-9-10 to Rs. 3-7-10. As regards the value of this preliminary demarcation when the permanent demarcation is effected, the Board has not been able to supply detailed information in the report under review. But it is

observed that in some cases, as for example in Vizagapatam, the high cost of the preliminary demarcation is really due to the very complete nature of the work, comprising the erection of permanent cairns.

7. *Final demarcation and survey of settled reserves.*—The following statement exhibits the outturn under permanent demarcation during the past three years:—

	Permanent demarcation.			Re-clearing of old lines, &c.		
	1895-96.	1896-97.	1897-98.	1895-96.	1896-97.	1897-98.
	MILES.	MILES.	MILES.	MILES.	MILES.	MILES.
Northern Circle	855	509	595	597	1,150	1,196
Central Circle	1,117	629	1,021	2,834	1,327	1,001
Southern Circle	217	238	348	193	549	697
Total ..	2,189	1,376	1,964	3,624	3,026	2,804
	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
Average cost per mile	9 8 6	12 2 5	11 3 10	2 14 4	4 12 0	3 12 6

It is observed that a substantially larger mileage of boundaries was newly demarcated at a somewhat smaller cost than in the previous year. The average rate, however, is still high; and it is not satisfactory to note that in North Coimbatore and Vizagapatam, where high rates were paid, no adequate explanations have been furnished.

8. The area of reserved forests topographically surveyed by the combined Parties Nos. 9 and 19 of the Survey of India was 1,041 square miles against 811 square miles in the previous year. The average cost per square mile reached Rs. 119; but the work in Kurnool and Coimbatore was carried on under the most unfavourable conditions, the ground being difficult and the climate unhealthy. The Government agrees with the Board that in the circumstances the year's work may be considered satisfactory.

9. The preparation of final maps kept pace with the extension of reserved forests during the year. These maps were prepared for an additional area of 796 square miles, making a total of 7,509 square miles for which final maps are available.

Management of State Forests.

10. *Working plans and plans of annual operations.*—From the report for the previous year it appeared that working plans for 317 square miles of reserves were ready at the end of the year. But it is now explained that this figure wrongly included an area of 99 square miles in South Arcot and 40 square miles in Nellore while an area of 5 square miles in Tinnevelly and apparently one square mile in South Coimbatore were omitted; so that the correct area covered by working plans at the beginning of the year under review was 184 square miles. Plans for 17 square miles in addition in Tinnevelly were completed during the year. Further the preparation of plans for 897 square miles was continued during the year and a fresh area of 204 square miles taken in hand. Thus at the end of the year out of a total area of 19,253 square miles of forests, working plans were either ready or in preparation for 1,302 square miles only. No explanation of this want of progress is offered in the report. The subject appears to have received insufficient attention in all districts except in Tinnevelly where there are now twelve working circles in which fellings are systematically carried out. In South Malabar the working plan for the Nilambur teak plantations was reconsidered on certain points in the light of the suggestions of the Inspector-General of Forests.

The annual plans of operations for each district were on the whole adhered to except in so far as expenditure was curtailed in accordance with general orders of the Government issued under pressure of the financial exigencies of the year.

11. *Communications and buildings.*—Expenditure under both these heads was curtailed as compared with the previous year, but the greater portion of the retrenchment took place under "roads and bridges." This is hardly satisfactory as expenditure under the latter head, as a general rule, is more essential to the efficient

exploitation of the forests than expenditure on "buildings." The working of the tramways continues to be estimated by the same unsatisfactory standard as in previous reports, but the Board will probably be able to remedy this in its next report. It is noted that the tramway for Nellore was worked to a considerably larger extent than in the previous year while the tramways for Cuddapah and South Coimbatore were less used.

12. *Forest offences.*—The statement below exhibits the number and mode of disposal of cases relating to forest offences during the past three years :—

Years.	Number of cases for disposal.			Number of cases disposed of.				Number of acquittals.	Percentage of cases compounded to cases disposed of.	Percentage of acquittals to cases dealt with by the Magistracy.
	Cases pending.	New cases.	Total.	Withdrawn.	Compounded.	Dealt with by the Magistracy.	Total.			
1895-96	1,365	9,610	10,975	1,009	4,531	3,862	9,402	796	48·2	20·6
1896-97	1,580	11,638	13,218	1,624	5,793	4,025	11,442	672	50·6	16·7
1897-98	1,776	14,993	16,769	2,420	7,694	4,474	14,588	650	52·7	14·5

The number of cases prosecuted increased by about 11 per cent., but the percentage of acquittals fell from 16·7 per cent. to 14·5 per cent. which must be regarded as satisfactory. Only 30·7 per cent., however, of the total number of cases reported were prosecuted, the remaining cases being either withdrawn or compounded. The total amount of compensation realised increased from Rs. 45,279 to Rs. 61,883.* The great increase in the number of offences reported, while to some slight degree due to the larger area under control, has in general to be ascribed to the greater efficiency of the reorganised subordinate staff. The fall in the percentage of acquittals shows that cases were prosecuted with discretion; and the Board reports that only petty cases or clear cases or cases in which the offenders unmistakably confessed their guilt have been compounded. At the same time it appears that a considerable number of the reported offences were of illicit grazing and in particular, illicit goat browsing; it has also to be remembered that the power of reporting petty offences which may be ultimately withdrawn places undesirable opportunities in the hands of subordinates. The Government is glad to see that the subject of forest offences and the due supervision over their institution and prosecution, as well as the subject of the regulation of grazing is receiving the special attention of the Board. A copy of the instructions the Board has issued on the subject has been received and will be noticed separately.

13. The measures adopted for the protection of forests from fire were not attended with the same success as in the previous year. The area attempted to be protected was 5,321 square miles which was 42 square miles less than in the previous year. Protection was successful in 93·6 per cent. only of this area as compared with 98·6 per cent. of the area under protection the year before. In North Malabar no less than 56,862 acres comprising all areas of deciduous forest in the Begur and Chedaleth ranges were burnt, the cause ascribed being the dryness of the season. In Madura there were 71 fires burning 41,767 acres of specially protected blocks; 19 of these fires covering an area of 11,837 acres are ascribed to intentional firing. In Kurnool also a large area was burnt through intentional firing. The Government is glad to note that schemes are being formulated for the better protection of the forests. These remarks are based on the information given in the body of the report; but it is noted that the figures in statement No. III in paragraph 22 of the report do not tally with those in form 51 of the appendix, and that no explanation of this appears or is offered.

* This sum does not include the amount collected in Vizagapatam as no return was received in time from that district.

14. The appended statement shows the extent to which the forests were closed to grazing during the year :—

AREAS closed and open to grazing.

Year.	Total area under control.	Closed to all animals.		Closed to goats or sheep or both.		Open to all animals.
		Whole year.	Part of year.	Whole year.	Part of year.	Whole year.
	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.
1896-97	18,907	1,767	226	18,081	96	744
1897-98	19,253	1,792	233	13,029	4,851	1,373

Except in the Southern Circle more extensive provision for goat browsing has been made. The Government notes that the Board is issuing special instructions on the subject.

15. *Improvement of forest growth.*—Except in Cuddapah, Kurnool, Bellary and Anantapur where, owing to the drought, the reserves were largely thrown open to cattle, natural reproduction progressed satisfactorily. Much work was done in all districts in artificial reproduction, plantations and cultural operations. The area under regular plantations shows an apparent decrease of 3,509 acres during the year; but 3,457 acres of this area are excluded as having been included in reserved forests. The only considerable area abandoned on account of failure was an extent of 407 acres in North Malabar, but the report does not explain the nature of the plantations or the cause of the failure. There was a slight decrease in the area under cultural operations. Experiments received due attention. *Bamboo* planting was successful in Kistna and South Malabar and the experiments with *Mahogany* are not discouraging. *Date* planting, however, seems to have failed in all the places where it was tried as an experiment.

16. *Exploitation of major and minor produce.*—Considerable attention was paid to meeting the wants of other State departments and Railway Companies in the matter of timber and fuel. Since the close of the year it has been decided that the department should undertake to meet as fully as possible the demand of the Railway Companies for sleepers. Grazing revenue shows a slight decline as compared with the previous year and this is ascribed to the drought and consequent free grants. It is noted that the Board has not been able to meet the wishes of the Government of India in the present report as regards an estimate of the value of the grass removed on free grants owing to drought. The demand for leaf manure for the wet cultivation under the Periyár reservoir has drawn general attention to the importance of developing the yield of the forests in this respect. The Government notes with satisfaction that working plans for blocks supplying leaves for manure in Madura have been put in hand.

GROSS YIELD AND OUTTURN OF FOREST PRODUCE.

17. The following statement shows that the total yield of the forests during the year was somewhat less than in the previous year, except under the head of minor produce :—

Years.	Timber including sandalwood.	Fuel.	Bamboos.	Minor produce, gross value.
	C. FT.	C. FT.	NO.	RS.
1896-97	2,642,276	12,182,192	30,846,684	9,42,739
1897-98	2,619,793	11,922,428	29,317,049	9,98,993
Increase or decrease in 1897-98 against 1896-97 ..	— 22,483	— 259,764	— 1,529,635	+ 56,254
Percentage of the increase or decrease above mentioned ..	— ·85	— 2·13	— 4·96	+ 5·97

The decrease was chiefly due to restricted departmental operations in the collection of produce. The demand on the other hand as measured by the disposal of produce showed a substantial increase; the quantity removed by purchasers was more, except under bamboos, than in the previous year, the value being Rs. 16,17,729 against Rs. 15,53,365 last year; and the quantity disposed of by departmental agency was also greater, except under fuel, the value amounting to Rs. 4,78,301 as compared with Rs. 4,25,607 in the previous year.

Financial results.

18. The financial results are exhibited in the table below:—

—	Receipts.	Charges.	Surplus.	Proportion of surplus to gross revenue.
1896-97.	Rs.	Rs.	Rs.	Per centum.
Northern Circle	5,97,422	4,65,280	+ 1,32,142	22
Central Circle	9,48,547	5,84,782	+ 3,63,765	38
Southern Circle	6,42,948	5,37,815	+ 1,05,133	16
Total ..	21,88,917	15,87,877	+ 6,01,040	27
1897-98.				
Northern Circle	5,99,670	4,68,026	+ 1,31,644	22
Central Circle	8,88,834	5,56,487	+ 3,32,347	37
Southern Circle	6,62,610	5,63,976	+ 98,634	15
Total ..	21,51,114	15,88,489	+ 5,62,625	26
Increase or decrease in 1897-98.				
Northern Circle	+ 2,248	+ 2,746	— 498	..
Central Circle	— 59,713	— 28,295	— 31,418	..
Southern Circle	+ 19,662	+ 26,161	— 6,499	..
Total ..	— 37,803	+ 612	— 38,415	..

It is observed that, though as pointed out above the quantity and value of the produce disposed of during the year was greater than in the previous year, the total revenue collected was less, the exact amount of the decrease being Rs. 37,803. This is partly due to the fact that receipts under *miscellaneous items* showed a decrease of Rs. 21,981 owing to a fall in the payments for clearing land on the Anamalais; but the balance appears to consist of the difference between the collections on account of arrears made during the year and the value of items not collected within the same period.

19. Under expenditure there was an increase of Rs. 59,602 under *establishment* due chiefly to the reorganization of the executive staff but this was counterbalanced by an almost equal decrease under *conservancy and works*.

The net result is a surplus of 5·62 lakhs of rupees being 26 per cent. of the gross revenue.

General Forest Administration.

20. The steps taken to encourage the growth of manure-leaf-yielding trees and shrubs have already been noticed. Generally, great attention was paid towards making the forests a source of help and benefit to the ryot-population.

21. The Government is glad to observe that the working of the rules framed under section 26 of the Act for the regulation of forest produce on unreserved lands was generally satisfactory. The Board's instructions to Collectors to draw up for approval a selected list of reserved and classified forests for each locality which alone need be strictly reserved in that locality meet with the cordial approval of the Government.

22. The conduct of the subordinate staff, the Government notices with regret, did not show any marked improvement. This can be attained only by the unremitted and watchful supervision of the superior officers, and the strict punishment of proved evildoers.

23. The indifferent health of the establishments reported from the majority of the districts is a matter for much regret. All the more praise is due to the department for the excellent work done under so many discouraging conditions.

24. *Conclusion.*—The progress of forest settlement work still calls for the close and constant supervision of the Board. The Government would have been glad to have seen farther advance also in the preparation of working plans. The report, however, records much useful work effected in respect both of the improvement of the forests and of their exploitation for the benefit of the people. The thanks of the Government are due to the Board and the officers of the department for the careful management of the year.

(True Extract.)

(Signed) G. S. FORBES,
Secretary to Government.

LIBRARY OF THE BOMBAY BRANCH OF THE ROYAL ASIATIC SOCIETY

ANNUAL ADMINISTRATION REPORT

OF THE

FOREST DEPARTMENT

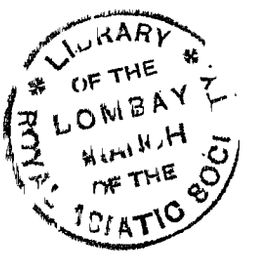
OF THE

MADRAS PRESIDENCY,

FOR THE

TWELVE MONTHS ENDING 30TH JUNE 1899.

(1898-99.)



MADRAS:
PRINTED BY THE SUPERINTENDENT, GOVERNMENT PRESS.

1900.

TABLE OF CONTENTS.

Chapter I.—Extension and Constitution of State Forests.

	PARA.	PAGE
i. Alteration of Area—		
Areas—		
Changes during the 12 months.	1	1 & 2
District Areas and Forest Reserves	2	2 & 3
Reserved Forests—		
Area constituted during the 12 months	3	4
ii. Forest Settlements—		
Progress in Settlement ..	4–7	5–7
Outturn of Work by Special Forest Settlement-officers ..	8	7–9
Outturn of other Settlement-officers (Divisional-officers) ..	9	9
Selections for further Reservation and Estimate of Area to be eventually declared Reserved Forests	10	9 & 10
Reserved Lands not brought under Settlement	11	10
Survey of proposed Reserves, and Employment of Draughtsmen	12	10 & 11
Demarcation of proposed Reserves	13	11 & 12
iii. Demarcation—		
Lengths demarcated and cost of permanent demarcation ..	14	12–15
iv. Surveys—		
Operations of the Survey of India Party	15	15 & 16
Departmental Surveys and the mapping of Reserved Forests.	16	16

Chapter II.—Management of State Forests.

1. Regulation of Management—		
Working Plans and their control.	17	16–18
Annual Plans of Operations ..	18	18
2. Working of the year—		
(*a*) Communications and Buildings—		
General	19	18 & 19
Expenditure on Roads ..		
Do. on Buildings.		
Tramways	20	19 & 20
(*b*) Protection of Forests from Injury—		
General Protection and Breaches of Forest Law and rewards to informers and subordinates of the Forest and Abkári Departments	21–23	20–27
Protection from Fire ..	24–26	28 & 29
Regulation of Grazing and Protection from Cattle ..	27	29–31
(*c*) Improvement of Forest growth—		
Natural Reproduction ..	28	31 & 32
Artificial Reproduction, Plantations and Cultural Operations	29	32 & 33
Early Thinnings, other Operations for the improvement of the Growing Stock	30	33 & 34
Experiments	31	34 & 35
(*d*) Exploitation of Major Forest Produce—		
Clear or Regeneration Fellings	32	35
Selection Fellings	33	35 & 36
Improvement, Coppice, &c., Fellings ..	34	36 & 37
Unregulated Fellings ..	35	37
(*e*) Extraction and Transport of Major Forest Produce ..	36	37
(*f*) Exploitation of Minor Forest Produce—		
Extraction of Fodder ..	37	37
Grazing	38	37 & 38
Miscellaneous Produce ..	39	38 & 39

Chapter III.—Gross Yield and Outturn of Forest Produce.

Yield—		
General	40	39
Departmental Operations ..	41	40–42
Removals by purchasers ..	42	42–44
Comparative Cost of Departmental and Private Working ..	43	44
Confiscated Produce	44	44 & 45
Free grants of Forest Produce ..	45	45

Chapter IV.—Financial Results.

Revenue and Expenditure	46	45–47

Chapter V.—Forest Administration.

	PARA.	PAGE
Important Administrative Changes—		
Realization of Revenue from the Usufruct of Toddy-yielding Trees in the Reserved Forests and Government Waste and Poramboke Lands	47	47
Measures adopted to encourage the growth of manure leaf yielding trees and shrubs	48	47
Working of the Department—		
Improvement of Forest growth and wants of the people ..	49	48
Rules under the Forest Act ..	50	48
Working of the Rules under Section 26 of the Forest Act ..	51	48
Coffee Cultivation in Reserved Forests	52	48 & 49
Tours of Forest Member ..	53	49
Conservators' Inspections ..	54	
Touring of District Forest officers.	55	
Inspection of Range offices by District Forest-officers ..	56	49
Audit of the Accounts of the District Forest offices	57	
Forest School	58	
Conference of District Forest and Divisional officers during jamabandi	59	49 & 50
Conduct and Work of the Establishment	60	50
Health of the Establishment ..	61	
Service Books	62	
Inventory of Valuable Stock ..	63	
Elephants	64	51
Rain-gauges	65	
The Iron Industry in the Salem District	66	
Mica	67	
Work done by Superior officers ..	68	51 & 52

APPENDICES.

	PAGE
Area of Reserved Forests and Reserved Lands (No. 44)	i–xii
Progress made in, and expenditure incurred on, Forest Settlements (No. 45) ..	xiii–xxix
Appendix A—Forest Settlement	xxx–xxxii
Do. B—Causes of delay in the submission of final Notifications of Forest Reserves	xxxiii
Do. C—Reserved Lands not under Settlement in square miles	xxxiv
Do. Demarcation and maintenance of boundaries (No. 46)	xxxv
Forest Areas Surveyed and under Survey (No. 47)	xxxvi & xxxvii
Appendix D—Abstract of District Reports in regard to the maintenance of Maps..	xxxviii & xxxix
Do. E—Statement showing the area of Forest Reserves for which final Maps have been prepared	xxxix
Progress made in Working Plans (No. 48)	xl
Communication and Buildings (No. 49)	xli–xlix
Statement showing the results of Transport of Wood by Tramways compared with the Transport by Carts (No. 65)	l–lii
Register of Breaches of Forest Rules (No. 50)	lii–lvii
Area of Forest Tracts protected from Fire (No. 51)	lviii–lxxi
Areas open and closed to grazing (No. 52)	lxxii
Statement of grazing in Reserved Forest and Reserved lands (No. 53)	lxxiii–lxxvii
Area of plantations cultural operations and Topes (No. 54)	lxxviii & lxxix
Statement showing the Outturn of Timber and Firewood and Agency of Exploitation (No. 55)	lxxx
Outturn of Minor Forest Produce (No. 56)	lxxxi
Account of Timber, &c., in Depots and sold locally (No. 57)	lxxxii & lxxxiii
Timber and other Produce cut and collected and removed by Consumers (No. 72 A, Old Code)	lxxxiv
Timber and other Produce confiscated and sold (No. 72 B, Old Code)	lxxxv
Abstract showing the value of Timber and other Produce at Depots (No. 58) ..	lxxxvi–lxxxviii
Summary of Revenue and Expenditure (No. 59)	lxxxix–xciii
Abstract of the above prepared in the Board's office	xciv & xcv
Outstandings and Liabilities on account of Contractors and Disbursers (No. 60) ..	xcvi
Do. on account of Revenue (No. 61)	xcvii
Statement of Financial results (No. 62)	xcviii
Abstract showing the value of Live-stock, Stores, Tools and Plant (No. 64) ..	xcix & c
Return of Elephants (No. 63)	ci & cii

LIBRARY
OF THE
BOMBAY
BRANCH
OF THE
ROYAL ASIATIC

MADRAS PRESIDENCY

SHOWING THE DISTRIBUTION

OF

RESERVED FORESTS & RESERVED LANDS

UP TO

1898-99

Scale 1 Inch = 32 Miles, or 1:2,027,520.

AREA STATEMENT IN SQUARE MILES OF FORESTS
ON 30th JUNE, 1899.

Circle	Division	Area	
		Reserved forests	Reserved lands
NORTHERN	Ganjam	355	104
	Vizagapatam	441	211
	Godavari	666	99
	Kistna	747	398
	Kurnool	2004	1,000
	Bellary	475	134
	Anantapur	300	7
	Total	5,143	1,877
CENTRAL	Cuddapah	1,015	156
	Nellore	810	91
	Chingleput	242	6
	North Arcot	1,089	67
	South Arcot	685	84
	Salem	1,437	156
	Trichinopoly	958	357
	Tanjore	18	—
	Total	6,249	1,043
SOUTHERN	South Canara	287	258
	Malabar North	559	113
	Malabar South	160	125
	Nilgiris	330	135
	Coimbatore North	1,061	356
	Coimbatore South	624	3
	Madura	377	36
	Tinnevelly	446	16
	Total	3,909	1,051

REFERENCE

Limit of Conservator's charge — Northern Circle / Central Circle / Southern Circle	
Boundary of Controlling Charge	
Do. Executive Charge	
Reference No. to Do.	6
Forest Surveyed on 4 Inch scale	
Reserved Forests not yet Surveyed	
Do. Lands (under Sect. 4 of the Forest act)	
Do. Do. (under Rules under Sect. 26 of the act)	
Conservator's Head Quarters	
Controlling Staff Head Quarters	
Executive Do. Do.	

ORISSA

CENTRAL PROVINCES

HYDERABAD

BOMBAY PRESIDENCY

MYSORE

MADRAS

BENGAL

GANJAM

CHATRAPUR

VIZAGAPATAM

GODAVARI

KISTNA

NELLORE

KURNOOL

BELLARY

ANANTAPUR

CUDDAPAH

NORTH ARCOT

Hyderabad

Coconada

MASULIPATAM

Tumkur

Kolar

Bangalore

76 78 80 82 84

20 18 16 14

BOMBAY PRESIDENCY
BELLARY
ANANTAPUR
CUDDAPAH
NELLORE
NORTH ARCOT
MADRAS
SALEM
COIMBATORE
NORTH MALABAR
SOUTH MALABAR
SOUTH CANARA
COORG
MYSORE
MANGALORE
CALICUT
COCHIN
TRICHINOPOLY
TANJORE
TONDIMAN
MADURA
TINNEVELLY
Tinnevelly Palamcottah
Cape Comorin
PONDICHERRY (French)
Fort St. David
CUDDALORE
PORTO NOVO
Adam's Bridge
Palk Bay
Palk Strait
Gulf of Manaar
CEYLON
Arabian Sea
Malabar Coast
Coromandel Coast
Bay of Bengal
Reference No. to Do.
Forest Surveyed on 4 Inch scale
Reserved Forests not yet Surveyed
Do. Lands (under Sect. 4 of the Forest act)
Do. Do. (under Rules under Sect. 26 of the act)
Conservator's Head Quarters
Controlling Staff Head Quarters
Executive Do. Do.
REFERENCE TO CONTROLLING AND EXECUTIVE CHARGES.
SOUTHERN CIRCLE
CENTRAL CIRCLE
SOUTHERN CIRCLE
Names of Controlling charges
No.
Names of Executive charges
Bangalore
Nuggehalli
Kankanhalli
Bangalore
Magadi
Nelamangala
Kingsgudem
Dharmavaram
Gooty
Tadpatri
Anantapur
Cuddapah
Rayachoti
Cuddapah
Jammalamadugu
Proddatur
Badvel
Cuddapah
Jammalamadugu
Rayachoti
Pulivendla
Nellore
Kavali
Atmakur
Nellore
Kavali
Udayagiri
Gudur
Nellore
Kavali
Udayagiri
Gudur
Salem
Hadhachellam
Mangalore
Attagalli
Tiruppathur
Vellore
Salem
Hosur
Dharmapuri
Penkanigotah
Dindigul
Salem
Hosur
Dharmapuri
Tiruppathur
Vellore
Arcot
Wandiwash
Chingleput
Conjeeveram
Arcot
Wandiwash
Chingleput
Conjeeveram
Coimbatore
Palladam
Udumalpet
Coimbatore
Erode
Satyamangalam
Coimbatore
Erode
Satyamangalam
Nilgiris
Ootacamund
Coonoor
Nilgiris
Ootacamund
Coonoor
Malabar North
Cannanore
Tellicherry
Cannanore
Tellicherry
Malabar South
Calicut
Ponnani
Calicut
Ponnani
Cochin
Trichoor
Palghat
Cochin
Trichoor
Palghat
Kurnool
Markapur
Cumbum
Giddalur
Nandikotkur
Banaganapalle
Pattikonda
Kurnool
Nandikotkur
Nandyal
Cumbum
Giddalur
Markapur
Bellary
Adoni
Bellary
Hospet
Kudligi
Harpanahalli
Bellary
Hospet
Kudligi
Harpanahalli
Anantapur
Kanakgiri
Penukonda
Madakasira
Anantapur
Penukonda
Madakasira
Cuddapah
Rayachoti
Pulivendla
Cuddapah
Rayachoti
Pulivendla
Salem
Hosur
Dharmapuri
Tiruppathur
Vellore
Salem
Hosur
Dharmapuri
Tiruppathur
Vellore
Trichinopoly & Tanjore
Trichinopoly
Karur
Perambalur
Uttapalaiyam
Tanjore
Trichinopoly
Karur
Perambalur
Uttapalaiyam
Tanjore
Tinnevelly
Srivilliputtur
Kalugumalai
Ambasamudram
Virapandi
Tinnevelly
Tinnevelly
Srivilliputtur
Kalugumalai
Ambasamudram
Virapandi
Tinnevelly
80
82
84
8
10
12
14

PROGRESS REPORT

OF

FOREST ADMINISTRATION IN THE MADRAS PRESIDENCY

FOR THE TWELVE MONTHS ENDING WITH 30TH JUNE 1899.

CHAPTER I.—EXTENSION AND CONSTITUTION OF STATE FORESTS.

(i) *Alteration of Area.*

The changes that have taken place during the year in the area of the state forests in the three circles and in the Presidency as a whole are presented in the following abstract. Details of alterations in each district are shown in Form No. 44.

ABSTRACT A.—Classes and areas of forests.

—	Area on 1st July 1898.	Added during the year.	Excluded during the year.	Net increase or decrease.	Area on 30th June 1899.
Northern Circle.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.
Reserved forests	4,802	(a) 14, (b) 348	(a) 13, (c) ..	+ 349	5,151
Do. lands	2,103	(a) 24, (d) 269	(a) 39, (c) 98, (e) 52, (f) 348	— 244	1,859
Total ..	6,905	655	550	+ 105	7,010
Central Circle.					
Reserved forests	5,565	(a) 190, (b) 379	(a) 92	+ 477	6,042
Do. lands	1,262	(a) 8, (d) 186	(a) 2, (c) 22, (e) 10, (f) 379	— 219	1,043
Total ..	6,827	763	505	+ 258	7,085
Southern Circle.					
Reserved forests	3,408	(a) .., (b) 288	(a) .., (c) 1	+ 287	3,695
Do. lands	2,113	(a) .., (d) 17	(a) 2, (c) 27, (e) 9, (f) 288	— 309	1,804
Total ..	5,521	305	327	— 22	5,499
Total.					
Reserved forests	13,775	(a) 204, (b) 1,015	(a) 105, (c) 1	+ 1,113	14,888
Do. lands	5,478	(a) 32, (d) 472	(a) 43, (c) 147, (e) 71, (f) 1,015	— 772	4,706
Grand Total ..	19,253	1,723	1,382	+ 341	19,594

(a) Rectification of area. (b) Transferred from reserved lands. (c) Disafforested or unreserved.
(d) Newly constituted reserved lands. (e) Excluded at settlement. (f) Transferred to reserved forests.

The net results show an increase of 341 square miles in the total area brought under the Forest Act, against an increase of 346 square miles during 1897–98. The largest addition to the area was, as in the previous year, in *Kurnool* where 59 square miles of unreserved land were notified under section 4 of the Forest Act, and 183 square miles newly notified by the Collector as "reserved lands" under Rule 5 of the rules under section 26 of the Act. The additions made in the district were all contemplated in the forecast of further reservation sanctioned by Government, but none of the considerable areas which remained as "reserved lands" under section 26 during the previous year was notified under section 4. The area now brought under the control of the Forest Department is in excess of the original sanctioned estimate and it is reported that a good many complaints of over reservation have been received from the ryots of Pattikonda and Ramallakot taluks. The Board is, however, glad to note that the question of throwing open the lands notified under the section 26 rules during the previous year is engaging the attention of the Collector who will be requested to submit a special report on the subject. In *Cuddapah* 108 square miles were notified under section 4; the addition was only 65 square miles, the rest of the area having been constituted "reserved lands" in previous years. 49 square miles were added to the area of the state forests in *Trichinopoly* entirely consisting of the selections in the Musiri range notified under section 4 during the year. In *Nellore*, *Salem*, *Bellary* and the *Nilgiris*, 40, 30, 27 and 11 square miles respectively were added but these additions were more than counterbalanced by the exclusions at settlement or the unreservation of areas in other districts. One hundred and forty-eight square miles were abandoned during the year and the area appertained chiefly to the districts of *Vizagagatam*, *Bellary*, *South Canara* and *Cuddapah*. The increase in the area of reserved forests was contributed mainly by the districts of *Ganjam*, *Anantapur*, *Kurnool* and *Kistna* in the *Northern circle Cuddapah*, *Nellore* and *North Arcot* in the *Central Circle* and *South Malabar* and *South Canara* in the *Southern Circle*. In *North Arcot* there was only an actual addition of 24 square miles but 98 square miles were also added as the result of the computation of the area of the previously existing reserves, according to the Survey of India maps received during the year. It has not been reported whether the survey of the extent of the enclosures erroneously included in the area of the reserves mapped by the Survey of India party in *Salem* alluded to in the report for the previous year, has been completed.

2. The following statement shows the forest area of each district and the percentage which it bears to the district area and to unoccupied lands. For the Presidency the percentage of the area reserved has risen slightly from 37·21 to 37·87 and is commensurate with the increase to the forest area, no changes having been recorded during the year in the district areas for want of information.

Abstract B.—District areas and forest reserves.

District.	Total district area excluding feudatory and tributary states.	Area excluding zemindari and whole inam villages.	Occupied area.	Particulars of remaining area (column 3 — column 4).			Reserved forests and reserved lands.			Percentage of column 10 to column 3.	Percentage of column 10 to column 7.
				Unoccupied, culturable, uncultivable and forest areas.	Area for which returns are not available.	Total of columns 5 and 6.	Reserved forests under Act V of 1882.	Reserved lands.	Total of reserves, columns 8 and 9.		
1	2	3	4	5	6	7	8	9	10	11	12
Northern Circle.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.		
Ganjám	8,369	4,437	606	1,147	2,684	3,831	415	123	538	12·12	14·04
Vizagapatam	17,242	1,378	265	572	541	1,113	142	212	354	25·68	31·80
Gódávari	7,857	3,976	1,552	2,424	..	2,424	866	90	956	24·04	39·43
Kistna	8,498	5,615	3,192	2,318	105	2,423	748	396	1,144	20·37	47·21
Kurnool	7,514	6,799	2,041	4,758	..	4,758	2,004	896	2,900	42·65	60 95
Bellary	5,718	4,636	2,692	1,944	..	1,944	476	135	611	13·17	31·43
Anantapur	5,461	4,569	2,166	2,284	119	2,403	500	7	507	11·09	21·09
Total ..	60,659	31,410	12,514	15,447	3,449	18,896	5,151	1,859	7,010	22·31	37·09
Central Circle.											
Cuddapah	8,723	7,570	2,132	5,438	.	5,438	1;855	598	2,453	32·40	45·10
Nellore	8,765	4,072	1,762	2,297	13	2,310	652	56	708	17·38	30·64
Chingleput	3,092	2,049	1,027	1,013	9	1,022	210	5	215	10·49	21·03
North Arcot	7,365	3,905	1,382	2,517	6	2,523	1,169	67	1,236	31·65	48·98
South Arcot	5,216	4,969	2,467	2,429	73	2,502	685	24	709	14·26	28·33
Salem	7,529	5,391	2,164	3,227	..	3,227	1,237	186	1,423	26·39	44·09
Trichinopoly	3,631	2,686	1,661	1,008	17	1,025	216	107	323	12·02	31·51
Tanjore	3,706	2,487	1,779	693	15	708	18	..	18	0·72	2·54
Total ..	48,027	33,129	14,374	18,622	133	18,755	6,042	1,043	7,085	21·38	37·77
Southern Circle.											
South Canara	3,902	3,883	683	3,200	..	3,200	284	811	1,095	28·19	34·21
Malabar	5,594	5,565	1,593	3,972	..	3,972	349	251	600	10·78	15·10
The Nilgiris	957	957	309	648	..	648	358	133	491	51·30	75·77
Coimbatore	7,860	7,297	3,861	3,436	..	3,436	1,715	560	2,275	31·17	66·21
Madura	8,813	3,244	1,684	1,560	..	1,560	572	37	609	18·77	39·03
Tinnevelly	5,389	3,567	2,298	1,263	6	1,269	417	12	429	12·02	33·80
Total ..	32,515	24,513	10,428	14,079	6	14,085	3,695	1,804	5,499	22·43	39·04
Grand Total ..	141,201	89,052	37,316	48,148	3,588	51,736	14,888	4,706	19,594	22·00	37·87

N.B.—The figures in columns 2 to 7 are the same as those adopted in the report for the previous year, the figures for the year being not yet available in the Settlement Department of the Board of Revenue.

3. The area finally constituted reserved forests in each district during and up to the end of the year is exhibited in the subjoined statement:—

ABSTRACT C.

Districts.	Prior to 1897-98.	During 1897-98.	During 1898-99.	Total.
Northern Circle.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.
Ganjám	146	99	176 (a) — 6	415
Vizagapatam	136	1	5	142
Gódávari	810	(a) — 36 2	22	866
Kistna	654	52	(a) + 41 1	748
Kurnool	1,806	156	42	2,004
Bellary	456	(a) — 15 12 (b) — 1	(a) + 12 6	476
Anantapur	437	13	50	500
Total ..	4,445	357	349	5,151
Central Circle.				
Cuddapah	1,576	(b) + 74 1	204	1,855
Nellore	537	17	98	652
Chingleput	203	(c) — 7 9	9	210
North Arcot	1,021	26	(a) + 24 98	1,169
South Arcot	573	103	9	685
Salem	1,229	(a) — 2 (c) — 1	11	1,237
Trichinopoly	189	3	24	216
Tanjore	18	..	..	18
Total ..	5,346	219	477	6,042
Southern Circle.				
South Canara	114	(a) + 27 25	118	284
North Malabar	157	..	2	159
South Malabar	39	1	150	190
The Nilgiris	358	(c) — 1 1	(c) — 1 1	358
North Coimbatore	1,053	(c) — 4 3	7	1,061
South Coimbatore	654	..	* ..	654
Madura	562	(a) — 15 10	5	572
Tinnevelly	410	2	5	417
Total ..	3,347	61	287	3,695
Grand Total ..	13,138	637	1,113	14,888

* One block of 97 acres was notified.

(a) Rectification of area. (b) Rounding off fraction in previous year's returns. (c) Declared unreserved.

The largest addition was in Cuddapah but 155 square miles of the area constituted related to two blocks the notifications of which were issued during the year previous to that under report. *Ganjám*, *South Malabar*, *South Canara* and *Nellore* ranked next; the other districts in which there were noticeable additions were *Anantapur*, *Kurnool* and *Kistna*. In the marginally—noted districts notifications in respect of the extent noted against each were issued during the year, the reservation however, taking effect from dates subsequent to the close of the period. The sanction of the Government of India for the disforestment of a few acres (176) in Kurnool, of 155 acres in North Malabar and of about half a square mile in the Nilgiris was also obtained.

	SQ. MLS.
Ganjám ...	13
Gódávari ...	30
Kistna ...	3
Bellary ...	1
Cuddapah ...	18

	SQ. MLS.
Chingleput ...	1
Salem ...	6
South Canara	38
Tinnevelly ...	1

(ii) *Forest Settlements.*

4. The progress of forest settlement is abstracted in the subjoined statement:—

ABSTRACT D.

Circle.	Area of reserved lands—*vide* Abstract A above.					Area brought under Chapter II of the Madras Forest Act.				
	On 1st July 1898.	Added during 1898-99.	Total.	Excluded during the year mainly by reason of constitution as reserved forests.	Balance at the end of the year.	Area notified under section 4, not constituted as reserved forests on 1st July 1898.	Added during 1898-99.	Total.	Constituted reserved forests during 1898-99, or otherwise disposed of.	Balance notified under section 4 but not constituted reserved forests on 1st July 1899.
	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.
Northern Circle	2,103	293	2,396	537	1,859	1,336	(a) 118 — 17	1,437	(b) 348 (b) 51 (c) 52	986
Central „	1,262	194	1,456	413	1,043	1,072	(a) 240 + 6	1,318	(b) 379 (b) 19 (c) 10	910
Southern „	2,113	17	2,130	326	1,804	1,419	135	1,554	(b) 288 (b) 5 (c) 9	1,252
Total ..	5,478	504	5,982	1,276	4,706	3,827	(a) 493 —11	4,309	1,161	3,148

(a) Rectification of area. (b) Initial notifications cancelled. (c) Excluded at settlement.

5. The statement in Appendix A shows districtwar, the total area brought under settlement up to the end of the year, the area constituted reserved forests and the particulars of balance under settlement on 30th June 1899. The following table shows the totals for the Presidency as compared with those of the previous year and the area notified under section 4 in each district is exhibited in Appendix C:—

—	1897-98.		1898-99.	
	Number of blocks.	Area.	Number of blocks.	Area.
		SQ. MLS.		SQ. MLS.
(1) Areas notified as proposed reserves under section 4 and remaining to be constituted reserved forests at the beginning of the year.	501	4,052	477 (a) + 5	3,827 (a) — 11
(2) Notified under section 4 during the year	128	515	167	493
Total ..	629	4,567	649	4,309
(3) Deduct area finally constituted as reserved forests under section 16, or excluded at settlement, or the initial notifications of which were cancelled, &c.	132 (b) 20	652 (b) 59 (c) 29	206 (b) 12	1,015 (b) 75 (c) 71
Total of (3) ..	152	740	218	1,161
(4) Area which remained to be finally constituted at the end of the year	477	3,827	431	3,148

(a) Rectification of area. (b) Initial notifications cancelled. (c) Excluded at settlement.

At the beginning of the year there were 482 blocks covering an area of 3,816 square miles remaining to be finally constituted reserved forests and 167 blocks of an aggregate extent of 493 square miles were added during the period against 128 blocks with an extent of 515 square miles in the previous year. The large number of blocks 70 in number notified in *North Arcot* and the *Nilgiris* being very small explains the

decrease in the area and the increase in the number notified. The blocks notified in *South Canara*, *Cuddapah*, *Kurnool*, *Trichinopoly* and *Nellore* covered a large extent of land. Seventy-one square miles were excluded at settlement for extension of cultivation and for the exercise of communal privileges and 12 blocks of 75 square miles were also abandoned more or less to meet the same purpose. It is satisfactory to note that 206 blocks with an extent of 1,015 square miles were finally constituted reserved forests during the year against 132 blocks of 652 square miles in the preceding year, leaving at the close of the period under review 431 blocks covering an extent of 3,148 square miles remaining to be notified. The particulars of this balance of area under settlement are as follows:—

	1897-98.		1898-99.	
	Number of blocks.	Area in square miles.	Number of blocks.	Area in square miles.
		SQ. MLS.		SQ. MLS.
(1) Notified under section 16 but not constituted reserved forests during the year	34	219	21	118
(2) With Board or Government awaiting publication of notification under section 16	75	595	49	495
(3) Returned by the Board for revision and remaining either with Collector, District Forest-officer or Forest Settlement-officer	30	488	22	460
Total settled and reported on ..	139	1,302	92	1,073
(4) Settled but not reported on	81	638	57	221
(5) Settlement proceeding	257	1,887	282	1,854
Total of (4) and (5) ..	338	2,525	339	2,075
Total of (1), (2), (3), (4) and (5) ..	477	3,827	431	3,148

6. The decrease in the number and extent of blocks pending at the close of the year as compared with that in the previous year is also satisfactory and was the result of the increase in the number and extent of the reserves finally gazetted. Of the 57 blocks comprising 221 square miles shown above as settled but not reported on—

9 were awaiting preparation of maps;
7 do. disposal of appeals;
9 do. expiry of time prescribed for appeals;
10 do. payment of compensation or exchange of lands; and
22 were pending submission of final reports by Forest Settlement-officers or owing to other causes.

Two hundred and eighty-two blocks were pending with the Forest Settlement-officers, District Forest-officers and Collectors in various stages of settlement. A statement showing districtwar the causes of pendency of the blocks not yet constituted reserved forests is given in appendix B.

7. The results of the settlement operations of the year under report are compared with those of the previous year in the following statement:—

Date.	Finally notified during the year.		Settled and reported on.		Settled but not reported on.		Total.	
	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.
1	2	3	4	5	6	7	8	9
		SQ. MLS.		SQ. MLS.		SQ. MLS.		SQ. MLS.
30th June 1898 ..	132	652	139	1,302	69	619	340	2,573
30th June 1899 ..	206	1,015	92	1,073	57	221	355	2,309

It will be seen from columns 8 and 9 of the statement that the year's operations were slightly in advance of those of the previous year in respect of the number of blocks but the area involved was less by 264 square miles.

In *Ganjám* seven of the eleven blocks pending for more than fifteen years were gazetted during the year and the notifications in respect of the others will be published within the current year. Of the four blocks in *Vizagapatam* orignally notified in the name of the Divisional-officers the final report of one Dharakonda has since been approved by Government. The settlement records of the Barnakonda block awaited submission to the Board at the close of the year. The final report of the Kadagandi reserve which was transferred to the Special Forest Settlement-officer is delayed as it is under contemplation to acquire under the Land Acquisition Act that portion of the reserve which was decreed by the District Court in favour of the Honourable the Raja of Bobbili. The other block Bointi was abandoned to provide room for the people of the villages acquired within the Kadagandi reserve. In *Gódávari* the reservation of one of the four oldest blocks took effect after the close of the year and the settlement reports of two others were pending with Government. It is hoped that the settlement of all the blocks in the district will be completed within the current year. Good progress was made in *Kistna*, *Anantapur*, *Nellore*, *Chingleput*, *Cuddapah*, *Trichinopoly* and *South Canara* and it is noted with satisfaction that all the blocks in Anantapur have been finally notified. In *Bellary*, *North Arcot*, *South Arcot*, *Salem*, *Madura* and *Tinnevelly* the progress was rather slow. The Peria, Padri and Kanoth reserves in *North Malabar*, blocks of long-standing, are reported to await the preparation of maps and the admission of certain rights of way by the Forest Settlement-officer. In *South Malabar* the New Amarampalem forest of 150 square miles was gazetted during the year. As regards the Attipadi valley blocks I, II, III and IV it has been decided to abandon III and IV and the other two await inspection by the Forest Settlement-officer. The initial notifications of the Nilambur leased forests were cancelled at the close of the year. The re-notification of the two oldest blocks in *North Coimbatore*, (Yedaralli and Madeswaramalai) has been found necessary and will shortly be submitted to Government.

8. *Outturn of work by the Special Forest Settlement-officers.*—The following abstract shows the work done by these officers during the year under report and it will be observed therefrom that the total outturn compares favourably with that of the preceding two years :—

Names of Special Forest Settlement-officers.	Districts.	Issue of proclamation after notification under section 4.		Settlement of claims.		Report after settlement submitted.		Final notification proclaimed.		Cost
		Number of blocks.	Area.	Number of blocks	Area.	Number of blocks.	Area.	Number of blocks.	Area.	
1	2	3	4	5	6	7	8	9	10	11
			SQ. M.		SQ. M.		SQ. M.		SQ. M.	RS.
Mr. F. W. Bateman ..	Ganjám	3	11	10	165	7	119	11	206	1,956
	Vizagapatam ..	1	8	14	31	8	4	8	4	1,956
	Gódávari	1	..	9	122	8	119	2	62	1,956
	Kistna	..	..	6	14	2	7	..	..	1,956
	Kurnool	..	..	4	149	2	60	..	..	1,956
	Total ..	5	19	43	481	27	309	21	272	9,780
Mr. E. A. Smith and M.R.Ry. P. S. Singaravelu Pillai Avargal.	Kistna	12	62	24	57	27	79	22	40	5,098
	Kurnool	5	37	3	54	4	30	5	41	1,420
	Bellary	10	30	11	22	11	22	7	12	1,201
	Anantapur	..	..	5	24	5	24	11	57	886
	Nellore	19	40	3	6	6	19	19	98	3,566
	Total ..	46	169	46	163	53	174	64	248	12,171
M.R.Ry. K. Ganapayya Garu.	Cuddapah	12	108	18	167	19	176	13	69	3,643
	North Arcot	43	1	34	1	18	7	6	24	4,304
	South Arcot	..	..	3	12	4	12	2	9	150
	Salem	4	35	4	43	4	43	3	17	1,535
	Chingleput	..	..	11	7	13	6	26	10	1,385
	Total ..	59	144	70	230	58	244	50	129	11,017
Mr. F. V. P. Gompertz ..	Trichinopoly ..	23	56	21	28	22	35	15	27	2,383
	Madura	1	11	4	17	2	16	2	3	2,383
	Coimbatore	..	..	1	3	4	58	6	6	2,383
	Tinnevelly	5	10	2	1	2	1	3	3	2,383
	Total ..	29	77	28	49	30	110	26	39	9,532
Mr. H. S. Mullins ..	Malabar	..	..	2	50	1	2	3	154	5,864
	South Canara ..	10	118	30	295	28	197	25	137	5,866
	Total ..	10	118	32	345	29	199	28	291	11,730
	Grand Total ..	149	527	219	1,268	197	1,036	189	979	54,230
	In 1897-98	115	438	233	1,159	148	680	126	740	59,654
	In 1896-97	144	511	146	1,234	98	518	99	623	58,222

During the year, Mr. F. W. Bateman, Assistant Superintendent, Madras Survey, was appointed to succeed Mr. R. H. L. Lushington, Special Forest Settlement-officer, Ganjám, &c., districts, and assumed charge of the division on the 26th September 1898 having previously undergone a short period of training with Mr. Gompertz in Trichinopoly in order that he might gain an insight into the details of forest settlement work. Mr. Smith was granted privilege leave for three months from 13th July 1898 and M.R.Ry. P. S. Singaravelu Pillai Avergal was appointed as his *locum tenens*. Messrs. Gompertz and Mullins were also absent on privilege leave for three months and one month, respectively, from October 1898 and M.R.Ry. Ganapayya Garu, for one month and twenty days from 25th February 1899. The number of blocks ready for settlement in the southern districts was for various causes insufficient to justify the appointment of a *locum tenens* during the absence of Mr. Gompertz. Notwithstanding the absence on leave of all these officers the outturn showed a marked general improvement on the preceding year's work and is satisfactory. Mr. Mullins was engaged for a considerable period in negotiating for the acquisition of the lands belonging to Bavoti Haji in the Periya and Kanoth reserves in Malabar and Mr. Gompertz in perambulating the Madeswaramalai block in North Coimbatore, the re-notification of which has been found necessary. But for this engagement their outturn would have been

greater. All the officers worked well during the year and the Board trusts that better results will be achieved during the current year. The work of the several officers was regularly scrutinized in the quarterly reviews of the Board, and the necessity of making every endeavour to expedite the submission of the final reports has been impressed upon the Forest Settlement-officers.

9. *Outturn of Forest Settlement work by Revenue Divisional-officers.*—No progress was made in the settlement of the three blocks pending with the Senior Assistant Collector, Berhampur, and the Principal Assistant Collector, Chicacole, in the *Ganjám* district, and the blocks have since been transferred to the file of the Special Forest Settlement-officer. The causes of the pendency of the blocks in *Vizagapatam* have already been explained. In the *Nilgiris*, the Head Assistant Collector was not able to pay much attention to the settlement work having been engaged on other work especially plague which required his constant personal supervision. The work was therefore transferred to the Special Forest Settlement-officer, Trichinopoly, &c., Districts, at the close of the year.

10. *Selections for further reservation.*—Selections to the extent of 20 square miles in the Agency tracts of "Pondokhol" mitta and 4 square miles in the Berhampur range have still to be made in the *Ganjám* district. The extent estimated last year was 85 square miles, and a considerable portion of this area selected during the year was abandoned to make provision for extension of cultivation after consultation with the Revenue authorities. No further selections were made in *Vizagapatam*, and what remains to be done is the submission of notification under section 4 of the Palkonda and Saragudu blocks which have already been constituted by the Collector as "reserved" lands under rules under section 26 of the Forest act. Three blocks of an aggregate extent of 49 square miles were selected in *Gódávari*, and this area is set down as the latest estimate of further reservation in the district. The area presumably excludes the proposed selection in the Delta range referred to in the report for the previous year as awaiting demarcation. In *Kurnool*, as has already been noticed, the selections made and reserved have exceeded the sanctioned estimate of reservation, and the question of unreserving certain areas notified last year in the Pattikonda and Ramallakot taluks is under the consideration of the Collector. The final scheme for further reservation in all the taluks of the *Bellary* district was approved by Government, and no further selections remain to be made. In *Anantapur* eight blocks of about 5 square miles were selected in the date-bearing areas of the Madakasíra range and are about to be notified under section 4. No further selections are to be made in *Cuddapah*, the work having been completed during the year. In *Nellore* 36 square miles were selected against 55 square miles in the previous year, but the progress cannot be regarded as satisfactory considering the very large extent (298 square miles) which still remain to be selected to complete reservation in the district. The sanction of Government was accorded during the year for the final scheme of reservation in *Salem* submitted by the Board, and the demarcation, mapping and survey of the selected blocks are in progress. The selections in the Musiri taluk of the *Trichinopoly* district referred to in the report for the previous year were notified under section 4 and their settlement is being proceeded with. In *South Canara* selection and demarcation in some of the ranges are awaiting the settlement of the *khan* and *báne* question and the completion of the revenue settlement. An extent of about 4 square miles was selected in *North Malabar*. In *South Malabar* the selection of the Silent valley block of about 27 square miles has been postponed, but 10 square miles, which are the subject of civil suits, will be taken in hand if they are found to belong to Government. The selections in *North Coimbatore* have been deferred for a considerable time owing to the want of maps which are being prepared by the Revenue Survey Department. It is reported that some of the maps have been recently received. The subjoined abstract shows the latest estimate of reservation in each district:—

ABSTRACT F.

District.	Sanctioned estimate of areas for reservation.	Area brought under the Forest Act—*vide* column 14 of Form 44.	Additional estimated area selected or to be selected.	Total estimate proposed to be reserved.	Percentage of column 5 to the area of Government lands in the district.	Percentage of column 5 to the unoccupied Government lands in the district.
1	2	3	4	5	6	7
	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.		
Ganjám	656	538	30	568	12·80	14·82
Vizagapatam	415	354	..	354	25·68	31·80
Gódávari	997	956	49	1,005	25·27	41·46
Kistna	1,165	1,144	..	1,144	20·03	47·21
Kurnool	2,677	2,900	..	2,900	42·65	60·95
Bellary	575	(*d*) 611	34	645	13·91	33·17
Anantapur	535	507	5	512	11·20	21·30
Cuddapah	2,640	2,453	..	2,453	32·40	45·10
Nellore	1,132	708	298	1,006	24·70	43·54
Chingleput	231	215	..	215	10·49	21·63
North Arcot	(*a*) ..	1,236	3	1,239	31·72	49·10
South Arcot	835	709	..	709	14·26	28·33
Salem	1,594	1,423	171	1,594	29·56	49·39
Trichinopoly	(*a*) ..	323	3	326	12·13	31·80
Tanjore	23	18	1	19	0·76	2·68
South Canara	1,011	1,095	..	1,095	28·19	34·21
Malabar	(*c*) 273	600	12	612	10·99	15·40
The Nilgiris	(*b*) 411	403	8	411	42·93	63·42
Coimbatore	(*c*) 1,812	2,275	37	2,313	31·69	67·31
Madura	(*a*) ..	609	..	609	18·77	59·03
Tinnevelly	440	429	1	430	12·05	33·88

(*a*) No definite schemes were formulated and approved for these districts.
(*b*) Excludes leased forests.
(*c*) Final schemes were submitted only for the Northern Division of the district.
(*d*) Includes leased forests 62 square miles.

11. *Reserved lands not brought under settlement.*—The area of reserved lands not yet brought under settlement is shown in Appendix C. The only districts in which considerable areas have yet to be notified under section 4 are *Kurnool*, *South Canara*, *Kistna* and *Vizagapatam*. In the first mentioned district the area rose from 275 to 458 square miles. The demarcation of the blocks selected in previous years is in progress and a considerable number of them await inspection by the District Forest-officer. Good progress was made in *South Canara*, where 116 square miles were notified under section 4, and some of the selections await, as already remarked elsewhere, the settlement of the *khan bâne* question. Out of the 240 square miles shown against *Kistna*, the demarcation and mapping of 110 square miles have yet to be made, and 86 square miles, which have been demarcated and mapped, await submission of the initial notifications. The notifications for 14 square miles have, it is reported, been postponed pending the results of the experiments made for the reclamation of coast swamps, while those for 21 square miles awaited the preparation of maps. The notifications in respect of the remaining extent were pending either with the Board or Government. Only 21 square miles were notified under section 4 during the year, and the short work is ascribed to the delay caused by the necessity of first referring to the Public Works Department whether any of the areas taken up would be irrigable in the near future. The area in *Vizagapatam* consists of the two blocks, Palakonda and Saragadu, and their notification was for some time delayed for want of a surveyor.

12. *Survey of proposed Reserves.*—The Survey of India Party completed the survey of 93 square miles in *Cuddapah* and 271 square miles in *North Coimbatore*. A staff of departmental temporary surveyors and draughtsmen also continued to work in connection with proposals for reservation. The work in *Vizagapatam*, where one surveyor was employed during a part of the year, consisted of the survey of two proposed reserves. About 148 miles of survey and 33 miles of demarcation were executed in *Gódávari* and 76 miles of survey in *Kistna*. In the latter district work was interrupted by the illness of the surveyor. In *Kurnool* the surveyor continued surveying the unsurveyed fields in the Eastern Nallamalai blocks under settlement and selection. In *Salem*, about 65 square miles of outline survey were completed in addition to demarcation of patta

fields settled by the Boundary Settlement-officer on the Kollimalais. Two surveyors were employed in *South Canara*—one entirely under the orders of the Forest Settlement-officer in correcting plans and boundaries. The other surveyor chained 241 miles and surveyed 88½ square miles with the plane table and prepared 18 tracings besides clearing 196 miles of line and demarcating 23¼ miles. In *Madura*, the work of the surveyor consisted of the survey of the areas leased out for cardamom cultivation.

The draughtsmen were, as usual, engaged in preparing or revising sketch-maps to accompany notifications under sections 4 or 16 and in posting and maintaining the maps prescribed in the Forest Code. The outturn of their work in this direction was generally satisfactory.

13. *Demarcation of proposed reserves.*—The subjoined statement shows the length of boundary lines preliminarily demarcated and the total and the average cost of the work as compared with the figures of the preceding year:—

PRELIMINARY demarcation work.

	During 1897-98.			During 1898-99.		
	Miles.	Cost.	Average cost per mile.	Miles.	Cost.	Average cost per mile.
1	2	3	4	5	6	7
Northern Circle.		RS.	RS. A. P.		RS.	RS. A. P.
Ganjám	8	20	2 8 0	22	130	5 14 6
Vizagapatam	32	536	16 12 0	20	268	13 6 4
Gódávari	17	88	5 2 10	96	249	2 9 6
Kistna	179	1,034 (*a*) 274	7 4 11	84	362	4 4 11
Kurnool	217 (*b*) 52	608 (*b*) 147	2 12 11	343	942	2 11 11
Bellary	154	362	2 5 7	75	348	4 10 2
Anantapur	..	..	..	..	..	..
Total, Northern Circle	659	3,069	4 10 6	640	2,299	3 9 5
Central Circle.						
Cuddapah	69 (*b*) 45	206 (*b*) 90	2 9 7	73 (*b*) 5	195 ..	2 10 8
Nellore	133	440	3 4 11	149	458	3 1 2
Chingleput	37	120	3 3 11	..	..	..
North Arcot	..	..	..	..	..	..
South do.	..	..	..	..	..	..
Salem	10	14	1 6 5	48	224	4 10 8
Trichinopoly	6	46	7 10 8	..	..	..
Tanjore	..	..	..	..	..	..
Total, Central Circle	300	916	3 0 10	275	877	3 3 0
Southern Circle.						
South Canara	366	94	0 4 1	424 (*b*) 151	188 (*c*) 364	0 7 1 2 6 6
North Malabar	39	235	6 0 5	8	34	4 4 0
South do.	5	76	15 3 2	6	296	49 5 4
The Nilgiris	75	537	7 2 7	55	609 (*b*) 27	11 1 2
North Coimbatore	12	136	11 5 4	16	207	12 15 0
South do.	..	17	..	..	..	..
Madura	..	..	..	..	..	..
Tinnevelly	..	..	..	..	..	..
Total, Southern Circle	497	1,095	2 3 3	660	1,725	2 9 9
Grand Total, Presidency	1,456	5,080	3 7 10	1,575	4,900	3 1 9

(*a*) Cost of erecting cairns. (*b*) Repairs. (*c*) Amount spent in clearing 151 miles of line for Forest Settlement-officers.

The reasons adduced in the previous year's report for absence of work in certain districts and short work in some others apply to similar occurrence during the year under report. Satisfactory progress was made in those districts where there were large areas to be notified under section 4. The outturn in *Kistna* could have been larger but for the fact that almost all the blocks remaining to be demarcated lie in unsurveyed areas and it was considered desirable to survey them before demarcation. The increase in the work turned out in *Kurnool* and *South Canara* where large areas remained to be demarcated is satisfactory. In the former district, demarcation was

done in the Yerramalais and in the plain jungles of Sirvel taluk, and in the latter district it was almost completed in the Uppinangâdi range and nearly so in the Puttur range. In *Anantapur* no preliminary demarcation was carried out during the year as the newly-selected areas are whole field numbers and the survey stones are considered sufficient for the purpose.

The average cost per mile in *Ganjám* is higher than that of last year and the increase was due to the difficulty of obtaining labour and the heavy charge incurred in cutting the line along the ridge of high hills heavily wooded in parts and somewhat inaccessible from the surrounding villages. In *Bellary* the work was done at double the cost paid last year and the increase was due partly to the lines having been made broader and partly to the heavy growth of forest through which they had to be cleared. Preliminary demarcation in *South Canara* is of a very simple kind and consists merely of cutting a number on a tree and heaping up a few stones near it. The rate has nearly doubled itself and it is explained that the difficult nature of the country and the time entailed in cutting the numbers deeper on the trees contributed to the increase. There was a remarkable rise in the rate in *South Malabar* and it has been attributed to the difficult nature of the country and the line running through dense shola forests. Moreover no labour was available but that of hillmen. In *Salem* and the *Nilgiris*, the average cost has arisen on account of the heavy clearings of undergrowth, and in *North Coimbatore* on account of the erection of permanent cairns in the preliminary stage in respect of certain blocks, the boundaries of which are not likely to be altered at settlement.

(iii) *Demarcation.*

14. There has been no change in the system of permanent demarcation reported in previous years. Form No. 46 shows the work turned out under this head as well as the expenditure incurred under new works and repairs.

The following table presents the length of boundary lines permanently demarcated during the year as compared with the results of the preceding year :—

ABSTRACT G.—Demarcation Work done during 1898–99.

Districts.	Permanent.						Re-clearing old lines.			
	During 1897–98.			During 1898–99.			During 1897–98.		During 1898–99.	
	Miles.	Cost.	Average cost per mile.	Miles.	Cost.	Average cost per mile.	Miles.	Cost.	Miles.	Cost.
1	2	3	4	5	6	7	8	9	10	11
Northern Circle.		RS.	RS. A. P.		RS.	RS. A. P.		RS.		RS.
Ganjám	53	(a) 349	6 9 4	130	(a) 1,400	10 12 3	260	(a) 567	(c) 59 (c) 49	176
Vizagapatam	74	1,891	25 8 10	91	1,443	15 13 8	..	156	100	(b) 325 (b) 792
Gódávari	108	(a) 701	6 7 10	55	572	10 6 4	296	(b) 49 (b) 379	(c) 286 109	(b) 508 115
Kistna	78	(a) 1,645	21 1 5	90	(a) 1,424	15 13 1	41	(d) 641 404	30	229
Kurnool	85	3,133	36 13 9	60	1,370	22 13 4	(c) 6 (c) 483	4	(c) 564 10	185 (i) 1,178
Bellary	187	1,190	6 5 9	150	1,147	7 10 4	20	(b) 267	490	(a) & (b) 1,833
Anantapur	10	(f) 33 44	3 4 10	102	529	5 2 11	..	12	..	73
Total, Northern Circle	595	8,986	15 1 8	678	7,885	11 10 1	1,106	2,479	1,697	5,414
Central Circle.										
Cuddapah	(g) 437	3,160	7 3 8	(g) 193	1,349	6 15 8	33	163	80	366
Nellore	206	(a) 1,446	7 0 4	28	(a) 275	9 13 1	60	158	9	23 (h) 53
Chingleput	78	(a) 1,570	20 2 0	34	(a) 849	24 15 2	21	91 (b) 472 (a) 143	..	(k) 117 (b) 478
North Arcot	(h) 116	1,385	11 15 0	(e) 62	656	10 9 3	254	954	(c) 1,765 12	146
South Arcot	154	2,518	16 5 7	277	3,678	13 4 5	50. (c) 51	72 (b) 675	3	17
Salem	21	51	2 6 10	43	243	5 10 5	305	563	(c) 486 391	522 (h) 32
Trichinopoly	9	51	5 10 8	..	..	..	50 (c) 177	258	(c) 118 11	85
Tanjore	..	..	..	..	..	..	..	..	..	1
Total, Central Circle	1,021	10,181	9 15 7	637	7,050	11 1 0	1,001	3,549	2,875	1,840

(a) Includes cost of erecting cairns, &c.
(b) Cost of temporary establishment.
(c) Cleared by the Forest establishment.
(d) Includes cost of sign-boards, &c.
(e) Includes rectifying 41 miles of demarcation.
(f) Cost of demarcation of enclosures in eighteen reserves.
(g) Includes rectifying 42 miles of demarcation.
(h) Added as per Accountant-General's audited figures under A-VIII (a).
(i) Amount spent in cutting 48 miles of block lines in the interior of reserves.
(k) Includes amount spent for cutting compartment and coupe lines.

Abstract G.—Demarcation Work done during 1898-99—*cont.*

Districts.	Permanent.						Re-clearing old lines.			
	During 1897-98.			During 1898-99.			During 1897-98.		During 1898-99.	
	Miles.	Cost.	Average cost per mile.	Miles.	Cost.	Average cost per mile.	Miles.	Cost.	Miles.	Cost.
1	1	3	4	5	6	7	8	9	10	11
Southern Circle.		Rs.	Rs. A. P.		Rs.	Rs. A. P.		Rs.		Rs.
South Canara	259	1,442	5 9 1	136	1,348	9 14 7	..	..	1	20 (*h*) 35
North Malabar	18	199	11 0 11	..	..	..	..	..	134	1,358 (*h*) 66
South Malabar	..	..	..	..	..	..	18	482	20	200
The Nilgiris	3	21	7 0 0	11	134	12 2 10	240	(*a*) 1,032 (*b*) 380	90	1,460 (*h*) 145
North Coimbatore	43	975	22 10 9	68	854	12 8 5	347	1,931	111	446
South Coimbatore	..	..	..	6	50	8 5 4	36	267	9	70 (*k*) 196
Madura	..	..	..	25	(*a*) 875	35 0 0	15	(*a*) 326	40	(*d*) 866
Tinnevelly	21 (*c*) 4	227 ..	10 12 11	12	(*a*) 194	16 2 8	41	163	4	23
Total, Southern Circle ..	344 (*c*) 4	2,864	8 5 3	258	3,455	13 6 3	697	4,581	409	4,885
Grand Total, Presidency ..	1,960 (*c*) + 4	22,031	11 3 10	1,573	18,390	11 11 0	2,093 (*c*) + 711	10,609	1,713 (*c*) 3,268	12,139

(*a*) Includes cost of erecting cairns, &c. (*b*) Cost of temporary establishment. (*c*) Cleared by the Forest establishment. (*d*) Includes cost of sign-boards, &c.
(*h*) Added as per Accountant-General's audited figures under A. VIII (*a*). (*k*) Amount spent for cutting compartment and coupe lines.

Satisfactory progress was made in several districts and the work done was commensurate with the requirements. In *Chingleput*, *Tanjore*, *South Canara* and *North Malabar* permanent demarcation was practically complete and in *Bellary*, *Anantapur*, *Cuddapah*, *North Arcot*, the *Nilgiris*, *North* and *South Coimbatore* and *Madura* nearly so. The outturn in *Ganjám*, *Vizagapatam* and *Kistna* in the *Northern Circle* and in *South Arcot* in the *Central Circle* shows an increase and may be regarded as fair, but it is noted that there is still a very large area remaining to be permanently demarcated in these districts as also in *Gódávari*, *Kurnool*, *Nellore*, *Salem*, *Trichinopoly* and *Tinnevelly*. The outturn in *Gódávari* was poor and this result was due to more attention having been devoted to the re-clearing of lines. It is explained that a considerable amount of time was devoted to removing stumps on the lines and erecting cairns where stones were available, the object being to turn out thorough work over a short distance so as to prevent coppice growth and the necessity for the work being frequently attended to. The work in *Kurnool* shows a decrease. It consisted of cutting the district boundary between Kurnool and Kistna, the taluk boundaries between Nandikótkur and Markapur and the boundaries of certain reserves; the difficult character of the localities in which work had to be done accounts for the decrease in the district. The short work in *Nellore*, *Salem*, *Trichinopoly*, *South Malabar* and *Tinnevelly* has not been explained.

Compared with the cost of the preceding year there was a marked increase in *Ganjám*, *Gódávari*, *Nellore*, *Chingleput*, *South Canara*, the *Nilgiris*, *Madura* and *Tinnevelly*. The increase in *Ganjám* was due to the hilly and tortuous character of the lines which had to be demarcated, enhancing, the cost of cutting and the number of cairns, and that in *Gódávari* to more substantial work as explained above. The demarcation of the Sangam reserve in *Nellore* involved a large outlay and the high rate in *Chingleput* was attributed to a large number of cairns having had to be erected in shorter distances than in the previous year. Difficult ground and scarcity of labour accounted for the increase in *South Canara*, the *Nilgiris* and *Madura*. No explanation has been furnished for the high rate paid in *Tinnevelly*.

(iv) *Surveys.*

15. The Survey of India operations were continued by the combined parties Nos. 9 and 19 in *Kurnool* in the *Northern Circle*, *Cuddapah*, *Salem* and *South Arcot* in the *Central Circle*, and *Madura* and *Coimbatore* in the *Southern Circle*. The outturn during the survey year from 1st September 1898 to 31st August 1899 was as follows:—

Districts.	Triangulation.	Traversing.	Topography.	
			Total.	Reserved forests.
	SQ. MLS.	L. MLS.	SQ. MLS.	SQ. MLS.
Kurnool	150	341	303	303
Cuddapah	550	121	334	241
Coimbatore	250	261	688	417
Madura	..	..	13	13
Salem	..	..	2	2
South Arcot	..	..	10	10
Total ..	950	723	1,350	986
Total of the preceding year ..	3,331	712	1,050	1,041

The outturn under triangulation was purposely restricted, as there was a large margin of the previous year's advance triangulation remaining for purposes of detail survey. The boundary traversing carried out was only slightly larger than in the previous year. The decrease under triangulation was more than compensated by the increase in topography which exceeded the estimated programme by 170 square miles and the previous year's work by 30 per cent.; and it will be observed that it is the highest record yet reached. The work in *Kurnool* and *Cuddapah* was conducted by a separate section of the parties in each and was confined to the survey

of the reserves in the Nallamalais and Lankamalais. A double section was at work in North Coimbatore. With the small outturn shown against *South Arcot* and *Salem*, the operations in these districts were completed. The work in *Madura* consisted of the survey of extensions to reserves on the Palni hills.

District Forest-officers visited the Survey office at Bangalore during the recess for the verification of the maps with the notifications. The corrections have been inserted in the fair maps and 36 of the year's work and 19 of the preceding year's work have been submitted for publication. The fair drawing of all maps was completed including 18 in connection with which field work has to be done in the next season.

The actual expenditure, inclusive of the cost of instruments, amounted for the survey year to Rs. 1,00,510, which is less than the preceding year's cost by over Rs. 29,000. The cost rate per square mile of topography was Rs. 74 against Rs. 119 in the previous year, and the reduction is attributed to the proper re-organization of the combined parties, which consisted during the year of 1 officer in charge, 5 European Assistants, 60 surveyors and apprentices and one writer.

16. *Departmental surveys.*—Two surveyors were employed in *Ganjám* and surveyed 323 miles, of which 199 refer to compact blocks and 124 to enclosures and parts of boundaries hitherto unsurveyed. In *Gódávari* a considerable portion of the surveyor's time was devoted to resurveying settled reserves and 51 miles were thus surveyed. The outturn in *Kistna* amounted to 94 miles, and in *Nellore* to 3 miles forming the survey of the Rapur-Veligonda boundary line and the Tammanipatam plantation reserve. In *South Malabar* the work consisted of the swamps and portions unsuitable for planting in coupe 1 in the Karimpoya reserve.

The area of reserved forests for which final maps were prepared up to 30th June 1899 amounts to 8518 square miles. The details for each district will be found in appendix E.

CHAPTER II.—MANAGEMENT OF STATE FORESTS.

(1) Regulation of Management.

(a) *Working Plans and their Control.*

Some progress has been made in the preparation of working plans and collection of statistics for future plans. The following is a *resumé* of the district reports :—

Northern Circle.

17. No working plans have as yet been framed for the forests in *Vizagapatam* and *Kurnool*. In *Ganjám* valuation surveys in the sâl forests were commenced by the Extra Assistant Conservator Mr. Hearsey in January 1899. The work was, however, interrupted by his illness, but has since the close of the year been continued by Mr. Cox. Material progress was made in *Gódávari* in the organized working of the reserved forests. Previous to 1898-99 two working plans for Coringa and Upputeru were in force, but had not received the sanction of the Board. These plans were revised and are pending submission to the Board. Three plans of a simple nature dealing with the conservation of small grazing areas were approved by the Board during the year. Plans for dealing with five areas comprising 15,206 acres were approved by the Conservator tentatively, and it is proposed to consider the expediency of finally recording them as working plans after a year's working. Similarly a simple plan for the Nallacherla reserve comprising 5,360 acres to provide for working the forest as well as for goat browsing was approved by the Conservator. According to the rough working plan drawn up in the preceding year for the Bollapalli reserve in *Kistna*, one-fifth of the existing stock in coupe 2 of compartment 1 was marked and advertised for sale, but no bidders came forward as the contractors for the trees in coupe 1 in the preceding year sustained a heavy loss owing to a large number of Yepi (*Hardwickia binata*) trees having been found to be hollow on cutting and unfit for building purposes. Coupe 6 of the Guntúr Babul (*Acacia arabica*) working circle

was sold during the year. In *Bellary* the provisions of the working plan for the eastern slopes of the Ramandrug range were adhered to. Some preliminary cuttings in Bandri and Gundu were carried out to secure statistics of yield. The provisions of the working plan for the Khojjipalli reserve have again been held in abeyance on account of the impracticability of carrying them out. The area is overrun with prickly-pear and its eradication at a cost of Rs. 100 per acre is not justifiable.

CENTRAL CIRCLE.

The operations in Balapalli in *Cuddapah* were conducted in accordance with the provisions of the working plan. An area of 55 acres was cut over, and the outturn was about 4 tons of fuel and 2 tons of brushwood per acre. In *Chingleput* several experimental coupes were opened during the year to meet the demand for fuel, &c. The provisions of the Annamalai working plan in *South Arcot* were carried out and the casuarina compartments were sold to advantage. The Morur block in *Salem* was worked in accordance with the working plan. The wood cut was for the most part supplied to the Railway Company as engine fuel and the small wood taken to the Salem depot for supply to the town. Considerable progress has been made in the collection of data for the preparation of simple working plans. In *Trichinopoly* the provisions of the working schemes for the Cauvery south bank plantations, the Udaiyárpálaiyam casan (*Memecylon edule*) reserves, and of the preliminary working plan for the Manaparai hill reserved forests were adhered to during the year, the error referred to in the preceding year's report as regards the last-named working plan having been rectified with the approval of the Conservator. The working scheme for the upper anicut padugais was deviated from in consequence of a larger demand from the Public Works Department for fuel to meet urgent requirements in connection with some important construction works undertaken by them near the padugais. In *Tanjore* the working plans for the Vettangudi reserved forest and the Tirumalavasal casuarina plantations were adhered to. An area of 168 acres in the Vettangudi block was sold during the year for Rs. 600 against Rs. 355 realized during the preceding year.

SOUTHERN CIRCLE.

In *North Malabar* a rough working plan was prepared for the Kurichiyat reserved forest on the basis of the measurements made on a line, $5\frac{1}{2}$ miles long and 50 yards wide, 100 acres taken right through the forest. The sample plots have not been under observation long enough to arrive at any data of importance. In *South Malabar* the provisions of the working plan for the teak plantations and that for the natural forests of Nilambur valley were adhered to. The work done in the natural forests was successful financially. In the area of 80 acres planted up, the cost of planting after deducting the amount realized by the sale of the timber originally standing on the ground came to Rs. 155 only. In the same tract another block of 80 acres was cleared and prepared for planting at a cost of Rs. 2,388, and the produce removed realized Rs. 5,000 and odd. The Walayar working scheme was again held in abeyance as the reserve required rest. In the *Nilgiris* Mr. Tireman's working plan for the Ootacamund plantations was held in abeyance owing to absence of demand. The operations were, however, carried on there and at Coonoor in accordance with the rough preliminary scheme drawn up by Mr. Gamble and as far as demand and other conditions permitted. The method of treatment was coppice. In *North Coimbatore* the Thottampalayam working plan is the only sanctioned one. It was proposed to raise seedlings of valuable trees with crops of castor-oil which it was estimated would yield excellent financial results. The results of the departmental work were not promising and the plan was accordingly modified, and it was proposed to lease out portions of the coupes for five years and to receive them back at the end of that period with 250 seedlings to the acre. The results were again not favourable owing to the unfavourable season. For fuel a series of five coupes were selected and demarcated and the yield was being carefully registered. Bamboos were also felled in coupes in a systematic manner. Sandalwood fellings were conducted in accordance with the provisions of rough working plans and the cutting was restricted almost entirely to dead and dying trees. In *South Coimbatore* the area covered by the provisions of the Sholakarai working scheme was given a rest which it requires and

which must be continued for another 7 or 8 years. During the period of rest, work will be carried on in the extension to the Sholakarai working circle comprising Thenkaradu and Sankararayapuram for which a simple working plan has to be prepared. Work was continued in Ayarangal working circle and one coupe was cut over in addition to the portion of a coupe remaining uncut from the previous year, with satisfactory results much in excess of the estimated yield and revenue. Some coupes were cut in Singara tope working circle, but one coupe which had to be felled to keep abreast of the working plan was left untouched for want of labour. The operations in the Chinnar working circle were in arrears. Some coupes were worked departmentally and some by contractors, and the results of yield and revenue were fairly good. In *Madura* working plans were being prepared for the forests extending over 252 square miles in Palamedu and Kanavoipatti ranges. They were not submitted for orders before the close of the year. They are to provide for the production of fuel and small timber for local consumption and for the growth of manure leaves. In *Tinnevelly* there were 12 working circles to which no additions were made during the year. They are chiefly worked for fuel, and the provisions of the working schemes applying to them were adhered to with some important deviations which were brought to notice. The results of working are fairly satisfactory.

(b) *Annual Plans of Operations.*

18. In the *Northern Circle* the plans of operations were fairly well followed in almost all the districts. In *Ganjám* they were adhered to with the exception of four items of works which were not carried out. In *Vizagapatam* and *Kistna* they were deviated from by deferring the erection of the Palkonda Range office in the former and the construction of certain Range camps and roads in the latter. In *Gódávari* the plans of operations were very closely worked up to, the main deviations having been prompted by conditions which could not be foreseen. The plans of operations in *Kurnool* were mainly adhered to, except in the execution of demarcation works. An important road work in the Sirvel range was carried on outside the plan. The deviations in *Bellary* were but few and in *Anantapur* almost none. In the *Central Circle* the plans of operations were, with only a few exceptions, adhered to in all the districts comprised therein. In *Chingleput* it was proposed that a coupe of 100 acres each in the Nagalapuram and Tirukalikundram reserved forests should be cut back departmentally and the produce sold in the forests on permits. The felling was, however, done on contract, and it has not been stated whether the felling was carried out in a manner which would justify the expectation of an improved stock. In the *Southern Circle* there were no material divergences in the plans of operations except in *North Malabar* and *South Coimbatore*. In *South Canara* the construction of new works under A-VII was deferred owing to financial pressure. In *North Malabar* some of the proposed works were left untouched and others were substituted for them. In *South Malabar*, the *Nilgiris*, *North Coimbatore*, *Madura* and *Tinnevelly* the plans of operations were followed, with only a few exceptions. In *South Coimbatore* they were departed from to a large extent. A number of proposed works were dropped for various reasons and replaced by others which became necessary. The experiment of floating timber in the Bhavani was not completed. Two rest-houses were not built as they were found not to be urgently required.

(2) WORKING OF THE YEAR.

(a) *Communications and Buildings.*

19. The subjoined statement shows the outlay on communications and buildings during the year under report as compared with the previous year :—

	1897-98.	1898-99.
	RS.	RS.
Roads and bridges	33,689	38,614
Buildings	44,205	49,409
Other works	5,783	5,376

Compared with the figures of the previous year there was an increase of expenditure under "roads and bridges" and "buildings" and a decrease under "other

works." The increase under the first named item is satisfactory as it shows that the most important means of developing and working the forests is receiving due attention.

In the *Northern Circle* a sum of Rs. 14,737 was spent on roads and bridges. A very large portion of this expenditure was incurred in *Godávari*, *Kistna* and *Kurnool*. The work in *Gódávari* consisted, besides the execution of repairs to existing roads, of the construction of 11 miles forming portions of two new ones, (1) from Ramanayyapet to Lododdi, and (2) from Vetangi to Rajavomangi. In *Kistna*, two new roads, $2\frac{3}{4}$ miles long, were made and $19\frac{1}{2}$ miles of the existing ones repaired at a cost of Rs. 4,302 and Rs. 234, respectively. The two new roads were in progress in the previous year. The road from Mellavagu to Remidicherla was completed and the other, Kondapalli hill road, was made practicable for carts, but requires draining and widening in parts. The chief new works in *Kurnool* were the alignment of (1) a road from Chelama Railway station to Byreni, (2) the construction of culverts on the Kodur-Ernipad Local Fund road, and (3) the conversion into roads of the existing cart-tracks from Pogapada to Chinna Mantrala and from Bandlagadda to Kutikanama in Markapur and Sirvel ranges, respectively. Repairs to existing roads were also executed. The new works and repairs undertaken in the other districts were small and call for no remarks.

In the *Central Circle* there was an expenditure of Rs. 5,713 on roads, chiefly in *North Arcot* and *Salem* under new works and in *Cuddapah* under repairs. In the last named district the most important work constituted the repair of $2\frac{1}{2}$ miles of the old Padarallasagudu road which opens up part of Seshachalam reserve. The cost of the repair amounted to Rs. 1,284. The new works in *North Arcot* and *Salem* consisted of the construction of the Patracad ghaut road at a cost of Rs. 1,765 in the former and of the Chitteri and the Pannagaram to Anchetti roads at an aggregate cost of Rs. 1,194 in the latter district.

In the *Southern Circle* the expenditure on roads amounted to Rs. 18,164. The bulk of this sum was spent on repairs in all the districts except *South Canara*, *South Malabar* and *Madura*. The only new works of importance were the completion of two roads and the Mandanthorai ferry approach in the *Tinnevelly* district. The principal works of repair in *North Malabar* and the *Nilgiris* were confined to the Chedleth-Sultan's Battery road in the former district and to the remetalling and opening of drains in certain roads in the latter. In *North Coimbatore* a sum of Rs. 3,863 was spent in repairing the two main ghaut roads from Hassanur to Lokanhalli and Aggipuram to Chellampalayam; and in *South Coimbatore* an amount of Rs. 1,200 was paid to the Local Fund Board as contribution for 1897–98 and 1898–99 for the maintenance of the Anamalai-Sethumadai road. In *Tinnevelly* an expenditure of Rs. 3,894 was incurred in sundry repairs.

Under "buildings" the most important new works undertaken in the *Northern Circle* consisted of the construction of rest-houses at Tunikicheruvu, Narlakonda and Jeediguppa in *Gódávari*, inspection camps at Bandlapenta and Dornal in *Kurnool*, and a rest-house at Rallapalli in *Anantapur*. The expenditure in the *Central Circle* was chiefly confined to repairs. A few rest-houses and tanna sheds were, however, constructed in *Salem*, *North Arcot* and *Cuddapah*. In the *Southern Circle* a large outlay was incurred on buildings. In *South Canara* a rest-house was constructed at Kadike at a cost of Rs. 1,308. The chief works in *North Malabar* were the construction of a rest-house at Begur at a cost of Rs. 2,049 and of a shed for drying gum-kino at Manantoddy for Rs. 400. The construction of a sandalwood godown at Kollegal in *North Coimbatore* and of a workshop for saw mill and peon's line at Mount Stuart and a chattram for coolies on the Anamalais in *South Coimbatore* formed the chief new works in the district. There were no works of importance in the other districts. Sundry works of construction and repairs were also executed in all the districts.

20. *Tramways.*—No conclusion has yet been arrived at with regard to devising a satisfactory method of estimating the usefulness of the tramway and the matter is still under correspondence with the Conservators. No attempt has therefore been made this year to compare the cost of transport by tramway with any other mode of conveyance, the work done and the actual cost incurred having only been exhibited

in Form No. 65. In *Cuddapah* a sum of Rs. 100 was spent during the year under report on repairs to the tramway which is invariably worked at a loss, the outturn of produce to be removed being comparatively small. It is noted that the transfer of the tramway to Nellore is under correspondence between the two District Forest-officers. The tramway in Sríharikóta range in *Nellore* is $5\frac{3}{4}$ miles long and that in the casuarina plantation range 4 miles. The quantity of wood carried by it in the former range was 5,319 tons or 25,265 ton miles against 21,436 in the preceding year, while that carried in the latter range was $919\frac{1}{4}$ tons or 3,677 ton miles against 6,822 in 1897–98. The tramway in the Sríharikóta range was worked over a distance of only $4\frac{3}{4}$ miles. The quantity trammed in *South Coimbatore* was 14,988 cubic feet against 40,880 cubic feet in 1897–98. This large decrease is attributed to the retention of many logs in forest depots to secure seasoned wood for the saw mill at Mount Stuart. There was, however, also some difficulty in securing contractors.

(b) *Protection of Forests from Injury.*

(1) General Protection and Breaches of Forest Laws.

21. The details of forest offences detected and disposed of in each district are given in Form No. 50 and the following summary shows by circles the new cases of the year with particulars of last year for comparison :—

Circle.	Year.	Number of cases pending at commencement of the year.	New cases of the year.					Total cases.	Cases pending at close of year.
			Injury by fire.	Unauthorised felling, &c.	Illicit grazing.	Other offences.	Total new cases.		
Northern ..	1897-98 ..	710	17	2,672	1,384	369	4,442	5,152	665
	1898-99 ..	665	35	2,580	1,793	320	4,728	5,393	629
	Difference ..	— 45	+ 18	— 92	+ 409	— 49	+ 286	+ 241	— 36
Central ..	1897-98 ..	682	53	3,710	3,825	377	7,965	8,647	1,054
	1898-99 ..	* 1,078	17	4,879	5,264	401	10,561	11,639	1,305
	Difference ..	+ 396	— 36	+ 1,169	+ 1,439	+ 24	+ 2,596	+ 2,992	+ 251
Southern ..	1897-98 ..	384	42	1,525	762	257	2,586	2,970	462
	1898-99 ..	* 457	92	1,613	1,107	194	3,006	3,463	430
	Difference ..	+ 73	+ 50	+ 88	+ 345	— 63	+ 420	+ 493	— 32
Presidency ..	1897-98 ..	1,776	112	7,907	5,971	1,003	† 14,993	16,769	2,181
	1898-99 ..	2,200	144	9,072	8,164	915	† 18,295	20,495	2,364
	Difference ..	+ 424	+ 32	+ 1,165	+ 2,193	— 88	+ 3,302	+ 3,726	+ 183

* *Vide* explanation in form No. 50 for variation of opening balance.
† Excludes petty offences in South Canara let off with a warning.

For the Presidency there was an increase under every head except "other offences" and the total number of new cases during the year increased by 22 per cent. The largest increase (32·6 per cent.) was in the *Central Circle*. *Southern Circle* ranked next with 16·2 per cent. The inclusion of undetected cases in the returns accounted for the comparatively small increase (6·4 per cent.) in the *Northern Circle*. The cases of "injury by fire" increased in the *Northern* and *Southern Circles* and decreased largely in the *Central Circle*. The fall in the last mentioned circle was general but was particularly noticeable in *South Arcot* where the offences reported decreased from 37 to 9. The increase in the *Northern Circle* occurred principally in *Vizagapatam*, *Gódávari* and *Anantapur*. In the last mentioned district there were no cases of fire during the previous year but all the 11 cases of the year under review were undetected. In the *Southern Circle* 37 and 33 cases were reported in *South Canara* and *Tinnevelly*. Most of these cases which were due to incendiarism were undetected and it was impossible to get any clue of the offenders. There was a falling off in the cases of "unauthorized felling" in the *Northern Circle*. The increase occurred mainly in *Ganjám*, *Bellary* and *Anantapur* and was more than counterbalanced by a large decrease in *Gódávari* and *Kurnool*. Better supervision and the recent strengthening of the subordinate establishments resulted in efficient detection in the three first mentioned

districts. In the *Central Circle* there was a slight decrease under this head in *Cuddapah* and a marked increase in the other districts except *Nellore*. In *Chingleput*, *North Arcot*, *South Arcot* and *Salem* the number rose from 245, 605, 1186 and 729 to 560, 767, 1,445 and 1,035, respectively. The increase of offences of all descriptions in *Chingleput* is ascribed to the introduction during the year under report of the system of treating the case of every individual who may have been concerned with others in the commission of one and the same offence as a separate charge, under the orders of the District Magistrate. In *Trichinopoly* the increase was the result of the prohibition imposed during the first half of the year—the manuring season—on the removal of manure leaves from the Pachamalai reserved forests. In the other districts it was due to increased vigilance on the part of the subordinates. There was a falling off in the number of cases in *South Canara*, *Malabar* and *South Coimbatore* and an increase in the other districts of the circle chiefly in *Madura* and the *Nilgiris* where the offences reported on were 368 and 51 against 242 and 24, respectively, in the previous year. In *Tinnevelly* the offences were petty ones and related to cases of illicit removals from unreserved lands and the increase in other districts was due to better detection.

"Illicit grazing" increased considerably in all the circles, 29·5 per cent. in the *Northern Circle*, 37·6 per cent. in the *Central Circle*, 45·2 per cent. in the *Southern Circle* and 36·7 per cent. for the Presidency. Taking the districts individually it diminished in *Ganjám*, *Gódávari* and *Trichinopoly*, the number of cases falling from 65 and 205 to 51 and 125, respectively, in the first mentioned two districts. The increase in *Kistna* has not been explained. In *Vizagapatam*, *Nellore*, *Tinnevelly* and *North Coimbatore* as well as in *Bellary* and *Salem* it was due to better supervision. The increase in *Kurnool* is set down as being due to the vast area reserved by the Collector under the rules under section 26 which was originally grazed free by the ryots. For the increase in *Anantapur* an explanation is to be found in the fact that during the preceding year the reserves were for several months thrown open to grazing free of charge owing to the prevailing drought and no cases were reported during that period. It was also in a measure due to increased detection. In *North Arcot* and *Madura* the offences under this head were doubled, the number of cases rising from 642 and 233 to 1,285 and 462, respectively. The increase in these last two districts as well as in *South Arcot* and *Cuddapah* was due to much illicit browsing of goats. The number of goats impounded were 32,659, 13,972, 35,436 and 22,721, respectively. The increase in *Chingleput* has already been explained.

The enhanced rate of pound fees was in force throughout the year under report, in the Tiruvannámalai taluk. The statistics of cattle impounded and the amount of pound fees, compensation and fines levied are compared in the following abstract :—

Year.	Number of animals dealt with.	Pound fees.	Compensation fees.	Fines.	Total.
		Rs.	Rs.	Rs.	Rs.
1897-98	19,758	3,478	3,940	711	8,129
1898-99	18,722	3,940	2,710	823	7,473

"Other offences" diminished in the *Northern* and *Southern Circles* and increased slightly in the *Central Circle*. Except in *Ganjám*, *Gódávari* and *Anantapur* the number of cases diminished in all the districts of the *Northern Circle*, notably in *Kistna* and *Bellary*. The decrease in the last mentioned district was the result of the introduction of the tree-tax system. The increase in *Gódávari* was but slight, while that in *Ganjám* has not been explained. In *Anantapur* the cases were "unauthorized cultivation in reserved forests" or those of shooting without a license. In the *Central Circle* the number diminished largely in *South Arcot* and more than doubled itself in *North Arcot;* the increase in the latter district was due to better detection, but the nature of the offences has not been reported. In the *Southern Circle* the decrease occurred in all the districts except *Madura* and *Tinnevelly;* in the last two districts the increase was only very small and calls for no remark.

The number of cases pending at the close of the year was only 183 more than the number pending at the close of the previous year. This does not require any explanation seeing the large increase (3,302) in the number of cases reported on.

22. The following abstract compares the disposal of offences during the year with that in the preceding year:—

Circle.	Year.	Total.	Withdrawn.		Compounded.		Prosecuted.		Percentage of cases prosecuted to disposals.	Percentage of acquittals to cases prosecuted.
			Number.	Percentage.	Number.	Percentage.	Convicted.	Acquitted.		
Northern ..	1897-98	4,487	702	15·7	2,235	49·8	1,356	194	34·5	12·5
	1898-99	4,764	717	15·1	2,355	49·4	1,446	246	35·5	14·5
	Difference ..	+ 277	+ 15	— 0·6	+ 120	— 0·4	+ 90	+ 52	+ 1·0	+ 2·0
Central ..	1897-98	7,593	1,348	17·8	4,255	56·0	1,691	299	26·2	15·0
	1898-99	10,334	1,177	11·4	6,390	61·8	2,407	360	26·8	13·0
	Difference ..	+ 2,741	— 171	— 6·4	+ 2,135	+ 5·8	+ 716	+ 61	+ 0·6	— 2·0
Southern ..	1897-98	2,508	370	14·8	1,204	48·0	777	157	37·2	16·8
	1898-99	3,033	470	15·5	1,325	43·7	1,090	148	40·8	11·9
	Difference ..	+ 525	+ 100	+ 0·7	+ 121	— 4·3	+ 313	— 9	+ 3·6	— 4·9
Presidency ..	1897-98	14,588	2,420	16·6	7,694	52·7	3,824	650	30·7	14·5
	1898-99	18,131	2,364	13·0	10,070	55·6	4,943	754	31·4	13·2
	Difference ..	+ 3,543	— 56	— 3·6	+ 2,376	+ 2·9	+ 1,119	+ 104	+ 0·7	— 1·3

The percentage of acquittals to prosecutions again shows an improvement having fallen from 14·5 to 13·2 for the Presidency, from 16·8 to 11·9 in the *Southern Circle*, and from 15 to 13 in the *Central Circle*. The *Northern Circle* showed, however, an increase of 2 per cent. Taking the districts individually, the percentages fell from 18 and 16 in *Ganjám* and *Kurnool* to 12 and 10, respectively. In *Vizagapatam*, *Gódávari*, *Kistna* and *Bellary* the acquittals increased by 5, 3·6, 5·5 and 3 per cent., respectively. In *Anantapur* the percentage was as high as 26. The unusual state of things in the last mentioned district is attributed by the District Forest-officer to perverse decisions on the part of one of the Sub-Magistrates and the attention of the District Magistrate has been drawn to the matter. In *Bellary* the number was swelled by several careless prosecutions for cultivation which was eventually proved to have been made outside the limits of reserved forest. In *Gódávari* the increase in the number of acquittals is said to be due to the leniency of the Magistrates and in some cases to prevarication of the Forest subordinates. In *Chingleput* and *Trichinopoly* the acquittals rose from 10 per cent. to 18 and 20 per cent., respectively. In the former district the high percentage is ascribed to the Sub-Magistrates treating as acquittals all cases in which the compounding fees were paid into Court. The increase in the latter district was due to the fact that in a few cases the acquittals were based on the Magistrates' view that the graziers and not the owners of cattle should be prosecuted and to the reluctance of the Magistrates in a few cases to accept the uncorroborated testimony of a watcher or guard, the only evidence available, and partly to the increase in the number of cases dealt with. In *Tanjore* 31 cases were taken to Court and of these, 3 were acquitted. The percentage of acquittals was 36 for *North Malabar*, but the total number of prosecutions was only 11 and the acquittals 4. In *South Canara* and *South Coimbatore* it rose from 20 and 11 to 22·6 and 13·6, respectively.

The percentage of cases withdrawn to cases disposed of diminished largely (6·4 per cent.) in the *Central Circle*, but in the *Northern* and *Southern Circles* it fell and rose but slightly, the net result for the Presidency being a decrease of 3·6 per cent. The slight increase in *Ganjám* (11 to 13 per cent.), *Vizagapatam* (20 to 22 per cent.), *Bellary* (10 to 12 per cent.) and *Anantapur* (8 to 11 per cent.) was to a great extent counterbalanced by the decrease in *Kistna* and *Kurnool*. In *Bellary* many of the offences reported by the Revenue Inspectors under a misapprehension of the rules

under section 26 had to be withdrawn. In the other districts the inclusion of undetected cases under withdrawals accounted for the increase. In the *Central Circle* the decrease was general, except in *Chingleput* where there was a slight rise (7 to 9 per cent.) due to the withdrawal of charges against minors. In *South Canara*, the *Nilgiris*, *North Coimbatore* and *Tinnevelly* an increase of 3, 7, 4 and 6 per cent., respectively, is observed, the increase being for the most part compensated by the decrease in the other districts. The increase in the first-mentioned two districts has not been explained. In *North Coimbatore* it was due to the lenient treatment of cases of grazing without permit in the early months of the year when, the offence was due to carelessness in renewing permits than to any intention to evade payment; while in *Tinnevelly* the striking off the register of a large number of undetected cases for the first time included in the returns apparently resulted in the rise in the percentage. The percentage of cases compounded diminished largely in the *Southern Circle* (from 48 to 43·7 per cent.) and slightly in the *Northern Circle* and increased by 5·8 per cent. in the *Central Circle* where, more than 50 per cent. of the cases compounded were grazing offences. In *Cuddapah*, *Chingleput*, *South Arcot* and *Trichinopoly* the percentage rose from 43, 69, 57 and 35 to 51, 77, 61 and 57, respectively. In *Nellore* it fell from 17 to 12 and in *North Arcot* from 78 to 77. The Board has no reason to doubt that the instructions on the subject are well understood in all the districts.

The following statement compares the amount of compensation realized during the year in each circle and the average amount per case and per person involved with those of the previous year:—

Circle.	During 1897-98.			During 1898-99.		
	Amount realised.	Average per case.	Average per person accused.	Amount realised.	Average per case.	Average amount per person accused.
	Rs.	Rs. A. P.	Rs. A. P.	Rs.	Rs. A. P.	Rs. A. P.
Northern	21,333	10 12 6	3 4 4	17,092	7 4 1	2 11 9
Central	31,747	7 7 5	3 1 2	37,630	5 14 2	2 8 5
Southern	8,803	7 4 11	2 14 2	8,921	6 11 8	2 10 11
Total ..	61,883	8 5 1	3 1 9	63,643	6 5 1	2 9 7

The total amount of compensation realized was only slightly larger than in the previous year, but it is satisfactory to find a reduction in the average amount paid per person involved in each circle as well as in the Presidency generally. The increase in the amount occurred mainly in *North Arcot*, *Trichinopoly* and *Tinnevelly*. The increase in the latter two districts was the result of a greater number of cases compounded during the year. In *Trichinopoly*, where the amount rose from Rs. 1,356 to Rs. 3,499, it is also reported to be due to the higher compounding rates levied for the purpose of producing a deterrent effect. In *North Arcot* higher rates were levied on old offenders. The increase is also attributed to the larger number of cattle detected in each case. The amount realized was Rs. 8,839 against Rs. 3,906 in the previous year. In *Kistna*, *Kurnool*, *Bellary*, *Cuddapah*, *South Arcot*, *Salem* and *Tinnevelly* the amount levied was Rs. 4,225, Rs. 4,058, Rs. 5,308, Rs. 2,666, Rs. 15,474, Rs. 5,898 and Rs. 3,454 respectively. In the *Northern Circle* the decrease was general in all the districts except *Kurnool*, andthe cases dealt with were petty ones.

The three cases of forged Government marks in *Ganjám* referred to in the report for the previous year resulted in conviction. The accused (the same in all the cases) was sentenced to six months' rigorous imprisonment and a fine of Rs. 300 in all. During the year under review, property consisting of one cart, 2 bulls and 3,384 cubic feet of wood was seized in a case of illicit removal of firewood and the accused sentenced to one month's rigorous imprisonment. In another case of illicit felling of nine sâl trees in the same district the accused was fined Rs. 70. An important case of illicit removal of yepi wood from the forests of the Palnad range in *Kistna* was detected; the two accused were sentenced to one and one and a half months' rigorous imprisonment respectively. In *North Arcot* there were several cases in which a large number of goats were caught grazing in reserves and rescued on their way to the

pound, the subordinates being beaten in some instances. But most of these cases resulted in acquittal owing to the range officers not having made an immediate inspection and enquiry. In *Madura* a forester while driving goats to the pound was attacked by Kallars, one of whom was shot by a revolver by the forester in self-defence. The forester was tried and acquitted; but the Kallars who were tried by another Magistrate were also acquitted. In the other districts there were no important cases worth mentioning.

23. No rewards were disbursed during the year to informers of forest offences in *Ganjám*, *Vizagapatam*, *Bellary*, *Nellore*, *Salem*, *Trichinopoly*, *Tanjore*, *South Malabar*, the *Nilgiris*, *North Coimbatore*, *South Coimbatore* and *Tinnevelly*. Information on the subject is not contained in the report from *North Malabar*. In the other districts, rewards to an aggregate extent of Rs. 365 to informers (including forest subordinates) and Rs. 204 to the subordinates of the Abkári department were paid. As in the previous year, the Board has issued a proceedings * on the subject of forest offences, a copy of which has been forwarded for the information of Government. The usual statements prescribed by the Government of India are appended below:—

* B.P., Forest No. 468, dated 4th November 1899.

No. I.

Circle.	Cases taken to Court.				Cases compounded.			
	Injury to forests by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Injury to forests by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.
1	2	3	4	5	6	7	8	9
Northern	10	940	622	153	1	1,242	925	127
Central	3	1,361	1,276	156	1	2,903	3,508	200
Southern	18	609	569	99	2	812	416	72
Total ..	31	2,910	2,467	408	4	4,957	4,849	399

Circle.	Cases withdrawn or undetected.				Total cases.				Grand total of cases.
	Injury to forests by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Injury to forests by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	
	10	11	12	13	14	15	16	17	18
Northern	24	398	246	40	35	2,580	1,793	320	4,728
Central	13	615	480	45	17	4,879	5,264	401	10,561
Southern	72	192	122	23	92	1,613	1,107	194	3,006
Total ..	109	1,205	848	108	144	9,072	8,164	915	* 18,295

* Excludes petty offences let off with a warning in South Canara.

No. II.

Details of prosecutions for offences by fire.

Division.	Serial No. of fire.	Acres burnt.	Character of offence (whether careless or intentional).	Whether acquitted or convicted.	Section of Law under which convicted.	Amount of punishment.
Vizagapatam	1	5 acres.	Intentional ..	Convicted	Section 21 of the Forest Act ..	Sentenced to fifteen days' rigorous imprisonment.
	2	2 ,,	Careless	Do.	Do. do. ..	Sentenced to four days' rigorous imprisonment.
	3	No information.	Intentional ..	Case pending ..	....	....
	4	No information.	Do. ..	Do. ..	....	....
	5	No information.	Do. ..	Do. ..	....	....
Gódávari	1	0·90 acres.	Do. ..	Convicted	Section 21 (*b*) of the Forest Act ..	Fined Rs. 5.
	2	1·00 ,,	Do. ..	Do.	Do. do. ..	Fined Rs. 10.
	3	250·00 ,,	Do. ..	Acquitted	....	....
	4	325·00 ,,	Careless	Convicted	Section 21 (*b*) of the Forest Act ..	Two were fined Rs. 10 each.
Kistna	1	13·00 ,,	Do.	Compounded ..	....	Compounded for Rs. 1-12-0.
Kurnool	1	12,000·00 ,,	Intentional ..	Acquitted	....	....
	2	No information.	Do. ..	Case pending ..	....	....
Cuddapah	1	50 acres.	Do. ..	Convicted	Section 21 of the Forest Act ..	Two were sentenced to fifteen days' rigorous imprisonment each.
	2	No information.	Careless	Withdrawn ..	....	....
	3	No information.	Intentional ..	Do.	....	....
North Arcot	1	24 acres.	Careless	Do.	....	....
	2	50 ,,	Do.	Convicted	Section 21 of the Forest Act	One was fined Rs. 2 and another Rs. 3.
South Arcot	1	150 ,,	Intentional ..	Do.	Do. do.	Three were find Rs. 20 each, in default one month's imprisonment.
	2	40 ,,	Careless	Withdrawn ..	....	....
	3	10 ,,	Do. ..	Convicted	Section 21 (*b*) of the Madras Forest Act.	Fined Rs. 2.
Salem	1	5 ,,	Intentional ..	Do.	Section 26 (*b*) do.	One was fined Rs. 5, in default one week's rigorous imprisonment and two others each fined Rs. 3, in default one week's rigorous imprisonment.
Trichinopoly	1	No information.	Do. ..	Do.	Section 26 of the Forest Act ..	Fined Rs. 10, in default ten days' simple imprisonment.
South Canara	1	12 acres.	Careless	Do.	Section 21 of the Forest Act	Sentenced to one month's rigorous imprisonment.
	2	20 ,,	Intentional ..	Acquitted	....	....
	3	10 ,,	Do. ..	Convicted	Section 21 of the Forest Act	Sentenced to four month's rigorous imprisonment and fined Rs. 50, in default six weeks further rigorous imprisonment.
	4	75 ,,	Careless	Do.	Section 21 (*b*) of the Forest Act ..	Fined Rs. 20.
	5	10 ,,	Do. ..	Do.	Do. do. ..	Fined Rs. 15.
	6	3 ,,	Do. ..	Do.	Do. do. ..	Fined Rs. 8 and Rs. 10 compensation.
	7	300 ,,	Intentional ..	Acquitted	....	....
South Malabar	1	0·25 ,,	Do. ..	Convicted	Charged under Sections 21 (*b*) and (*d*) but convicted under the latter clause only.	Fined Rs. 3, in default ten days' rigorous imprisonment.
North Coimbatore ..	1	*Nil.*	Careless	Do.	Section 21 of the Forest Act	Fined Re. 1 each.
	2	Do.	Do.	Do.	Do. do.	Fined Rs. 5 ,,
	3	Do.	Do.	Do.	Do. do. .. .	Fined Rs. 2 ,,
	4	Do.	Do.	Do.	Do. do.	Fined Rs. 2 ,,
South Coimbatore ..	1	395 acres.	Intentional ..	Do. *	Do. do.	Six were sentenced to ten days' rigorous imprisonment each.
	2	10 ,,	Do. ..	Do.	Do. do.	Sentenced to one month's rigorous imprisonment and to pay Rs. 25 as compensation.
	3	19 ,,	Do. ..	Do.	Do. do.	Three were sentenced to one month's rigorous imprisonment each.
	4	400 ,,	Careless	Case pending ..	....	....
	5	7 ,,	Intentional ..	Convicted	Section 21 of the Forest Act and Section 545 of the Criminal Procedure Code	Nineteen offenders fined Rs. 5 each and Rs. 5 each as compensation.
Madura	1	*Nil.*	Do. ..	Do. ..	Section 21 (*a*) and (*f*) of the Forest Act.	Fined Rs. 6.
	2, 3 & 4	*Nil.*	Do. ..	Two convicted one acquitted.	Do. do.	Fined Rs. 7-4-0.
	5	10 square yards.	Do. ..	Convicted	Do. do.	Fined Rs. 4.
Tinnevelly	1	0·2 acres.	Careless	Withdrawn ..	....	....
	2	50·00 ,,	Do.	Do.	....	....
	3	300·00 ,,	Intentional ..	Case pending ..	....	....

* The case against two persons was withdrawn.

No. III.

Division or Circle.	A. Fire caused by accident or through carelessness in burning fire lines.		B. Fires entering the forests by crossing exterior fire traces.		C. Fires beginning inside the reserve or fire traced areas. Owing to carelessness or accident.							
					By workmen employed in the forests, by purchasers of forest produce, and by Yah-cutters.		By villagers, travellers, &c., passing through the forests.		By railway engines.		By lightning or by fire-balloons.	
	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.
1	2	3	4	5	6	7	8	9	10	11	12	13
Northern Circle.												
Ganjám	..	..	1	150	..	..	2	600	..	..	..	..
Vizagapatam	..	..	..	..	..	1	2	..	..	..	..	..
Gódávari	..	..	1	10	6	3,958	10	3,467	..	..	..	..
Kistna	..	..	..	..	1	..	2	8	..	..	..	..
Kurnool	..	..	..	..	..	..	..	..	..	..	..	..
Bellary	2	1,955	..	..	..	..	3	200	3	150	..	..
Anantapur	..	..	..	..	..	..	..	..	..	..	..	..
Total, Northern Circle ..	2	1,955	2	160	7	3,958	18	4,277	3	150	..	..
Central Circle.												
Cuddapah	..	..	..	..	..	..	..	..	..	..	..	..
Nellore	..	..	..	..	..	..	..	..	..	..	..	..
Chingleput	..	..	..	..	..	..	..	..	..	..	..	..
North Arcot	1	200	4	80	1	4	2	6	..	..	..	..
South Arcot *	2	105	2	25	..	..	1	2	..	..	..	..
Salem	2	40	..	..	1	30	..	..	..	..	..	..
Trichinopoly	..	..	..	..	..	..	..	..	..	..	..	..
Tanjore	..	..	..	..	..	..	..	..	..	..	..	..
Total, Central Circle ..	5	345	6	105	2	34	3	8	..	..	..	..
Southern Circle.												
South Canara †	..	..	..	..	..	..	16	500	..	..	..	..
North Malabar	..	..	4	63,859	..	..	..	..	..	..	..	..
South Malabar ..	..	..	1	6	..	..	..	..	..	..	..	..
The Nilgiris	4	84	2	490	..	..	2	13	..	..	..	..
North Coimbatore	..	..	..	..	..	..	..	..	..	..	..	..
South Coimbatore	..	..	..	..	1	400	..	..	..	..	..	..
Madura	1	15	8	2,295	..	..	2	15	..	..	..	..
Tinnevelly	2	33	5	490	4	13	2	52	..	..	1	50
Total, Southern Circle ..	7	132	20	67,140	5	413	22	580	..	..	1	50
Total, Presidency ..	14	2,432	28	67,405	14	4,405	43	4,865	3	150	1	50

* The Collector has not explained the omission in this statement of the fires recorded against the district in statement II.

† Does not tally with the figures in statement No. II. The Collector has not explained the variation.

No. III—*cont.*

Division or Circle.	C. Fires beginning inside the reserve or fire traced areas—*cont.*										Total A, B and C.	
	By intentional firing.								Causes unknown.			
	In order to obtain new grass.		In order to turn out game or to reduce cover.		Maliciously fired.		Total.					
	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.
	14	15	16	17	18	19	20	21	22	23	24	25
Northern Circle.												
Ganjám	..	..	..	..	..	..	..	..	46	3,208	49	3,958
Vizagapatam	..	..	..	..	4	5	4	5	‡ ..	4,400	5	4,407
Gódávari	1	1	2	251	..	..	3	252	7	1,293	27	8,980
Kistna	§ 3	60	..	..	..	..	3	60	1	250	7	318
Kurnool	..	..	..	..	1	‡ ..	1	..	15	6,962	16	6,962
Bellary	2	..	..	..	..	..	2	..	1	50	11	‖ 2,355
Anantapur	..	..	..	..	..	..	..	..	11	3,270	11	3,270
Total, Northern Circle	6	61	2	251	5	5	13	317	81	19,433	126	30,250
Central Circle.												
Cuddapah	..	..	..	..	1	50	1	50	72	13,077	73	13,127
Nellore	..	..	..	..	..	..	..	..	..	..	..	..
Chingleput	..	..	..	..	..	..	..	..	..	..	..	..
North Arcot	10	2,447	..	..	4	450	§ 14	2,897	8	181	30	8,368
South Arcot	1	6	..	..	..	..	1	6	7	3	13	‖ 141
Salem	1	20	..	..	..	..	1	20	4	263	8	‖ 353
Trichinopoly	1	40	..	..	1	..	2	40	1	5	3	45
Tanjore	..	..	..	..	..	..	..	..	..	..	..	..
Total, Central Circle	13	2,513	..	..	6	500	19	3,013	92	13,529	127	17,034
Southern Circle.												
South Canara †	1	50	1	300	..	..	2	350	19	189	37	‖ 1,039
North Malabar	..	..	..	..	..	..	..	..	..	..	4	63,859
South Malabar	..	..	..	..	1	..	1	..	..	..	2	6
The Nilgiris	..	..	..	..	..	..	..	..	..	..	8	‖ 587
North Coimbatore	..	..	..	..	10	47	§ 10	47	2	4	12	51
South Coimbatore	..	..	..	..	1	7	1	7	..	..	2	‖ 407
Madura	24	1,550	1	..	..	..	§ 25	1,550	4	182	40	‖ 4,057
Tinnevelly	11	2,054	..	..	13	1,230	24	4,284	3	884	41	5,806
Total, Southern Circle	36	4,654	2	300	25	1,284	63	6,238	28	1,259	146	75,812
Total, Presidency	55	7,228	4	551	36	1,789	95	9,568	201	34,221	399	123,096

‡ Not known.
§ No explanation has been given by the Collector for not recording these fires in Form No. 50.
‖ The Collector has not explained the variations between these figures and those entered in Form No. 51.

(2) Forest Fires and Fire-protection.

24. The following abstract exhibits the results of fire protection as compared with those of the preceding year :—

Circles.	During 1897-98.			During 1898-99.		
	Area attempted in square miles.	Percentage of area attempted which escaped fire.	Average cost per square mile.	Area attempted in square miles.	Percentage of area attempted which escaped fire.	Average cost per square mile.
			Rs. A. P.			Rs. A. P.
Northern	1,069	94	9 0 4	963	95·1	10 10 9
Central	2,379	96·7	5 9 8	2,416	98·9	5 3 8
Southern	1,873	89·7	7 3 7	1,747	93·6	6 10 4
Total ..	5,321	93·6	6 13 9	5,126	96·3	6 11 9

There was no change in the system of fire protection previously reported. The net result of the operations shows a decrease of 195 square miles in the area attempted to be protected and of Rs. 1,983 in the cost incurred which, as per Form No. 51, amounted to Rs. 34,532 during the year under report. When compared with the rate for the previous year, the average cost per square mile is higher in the *Northern Circle* and slightly lower in the other two circles as well as for the Presidency. There was a decrease of 106 square miles in the area attempted in the *Northern Circle*, chiefly in *Kurnool*, *Bellary* and *Anantapur* due to the abandonment of certain areas, the protection of which was considered unadvisable for the present, while on the other hand the expenditure in these districts showed an increase contributing to the increase in the cost rate. In *Kurnool* fire tracing the district, taluk and reserve boundaries had to be undertaken, while in *Anantapur* fresh compartment lines had to be cut through heavy growth. Work was carried out more thoroughly in *Bellary*, many of the compartment lines having been recleared and all the lines cleared to a greater width than in the previous year. In the *Central Circle* there was an increase of 37 square miles in the area attempted, chiefly in *North Arcot*, while the cost of protection was less. The decrease is ascribed to the fire patrols having been employed for shorter period owing to the favourable season and to the utilization of the watchers in clearing fire lines. The decrease in the *Southern Circle* occurred mainly in *Madura* where protection was limited to Alagarmalai in the Palamedu and to certain reserves in the Kodaikánal range, as it could not be made effective in the larger blocks for more than a few years at a time.

25. The percentage of area burnt to the area attempted is 4·9 in the *Northern Circle*, 1·1 in the *Central* and 6·4 in the *Southern Circle* against 6, 3·3 and 10·3, respectively, in the preceding year. The percentages for the several districts, as compared with those for 1897-98, are shown below :—

Northern Circle.			Central Circle.			Southern Circle.		
Districts.	Percentage of fires to area attempted		Districts.	Percentage of fires to area attempted		Districts.	Percentage of fires to area attempted	
	In 1897-98.	In 1898-99.		In 1897-98.	In 1898-99.		In 1897-98.	In 1898-99.
Ganjám ..	2·8	2·9	Cuddapah ..	5·3	3·2	South Canara ..	0·6	1·3
Vizagapatam ..	2·0	5·5	Nellore ..	2·2	..	North Malabar ..	80·7	82·1
Gódávari ..	3·9	6·4	Chingleput ..	0·3	..	South do. ..	..	0·005
Kistna ..	0·1	0·3	North Arcot ..	2·6	0·4	The Nilgiris ..	0·2	0·5
Kurnool ..	37.4	10·8	South do. ..	4·4	0·1	North Coimbatore.	5·9	0·6
Bellary ..	0·7	4·9	Salem ..	2·5	0·1	South do.	4·5	0·09
Anantapur ..	0.5	4·8	Trichinopoly ..	0·1	0·05	Madura ..	19·4	0·3
			Tanjore ..	..	..	Tinnevelly ..	2·2	2·4
	6	4·9		3·3	1·1		10·3	6·4

Compared with the preceding year, the results of fire protection during the year under report are satisfactory. Dealing, however, with individual districts, the results in almost all the districts in the *Central Circle* and in *Coimbatore* (*north* and *south*) and *Madura* in the *Southern Circle* are good. The percentage of failures in the several districts comprised in the *Northern Circle* compares unfavourably with the results of 1897–98 except in *Kurnool* where the satisfactory result is attributed to efficient protection. The increase in *Ganjám* was trifling, but it is believed that many of the fires were deliberately planned by the villagers to enable them to collect bamboo seed. In *Vizagapatam* the rise is ascribed to the fires resulting from "podu" (shifting) cultivation, while in *Gódávari* to their uncontrollable character in the hill reserves. In *Bellary* rigid protection was confined to the leased forests and plantations. The area burnt was the result of two fires—one of which alone was responsible for 1,900 acres which occurred while burning the lines, the fires having got out of control owing to high wind. The other fire was caused by sparks from the railway engines. The failure in *Anantapur* was due to the apathy displayed by the village officers in failing to render help in extinguishing the fires. It is noted that the delinquents have been fined and otherwise punished. In *Cuddapah* there were eighteen fires in the Yerrakonda, Lankamalais and Nallamalais due in most cases to incendiarism. The area burnt amounted to 3,826 acres, but it is only approximate. The Yerrakonda has been closed to grazing during 1899–1900. Three fires in the Nallamalais are reported to have crossed from Kurnool and one in the Lankamalais to have been started by a spark from a fire outside the protected area. Early rains contributed to the success in *North and South Arcot*, *Salem* and *Madura*. Three cases of fires occurred in *Trichinopoly*, but the damage done was trifling. In *South Canara* 750 acres were burnt, the worst fires being in the Chinkramale reserve (300 acres) and in the Baindur block (210 acres). The former was due to incendiarism and the latter to accident. The result of fire protection in *North Mulabar* was again most disappointing, the percentage of area which escaped fire being only 17·9 against 19·3 in the preceding year. Large areas of dead bamboos made the forest very inflammable and the exceptionally high winds that prevailed during the year under report caused the fires to spread rapidly. The large specially-protected area in Kurichiyat block was burnt through after having escaped for six years. A number of logs was burnt, which, owing to want of elephants, had not been dragged to depot. The loss amounted to about 1,871 cubic feet of teak, vengai and venteak.

In *North Coimbatore* four small fires occurred. An attempt was made to destroy the Judathalhall sandalwood compartment by setting fire deliberately in eight places, but the fire was quickly put out, a comparatively small area having been burnt. The only important fire in *South Coimbatore* occurred in the Tekadi leased forests and the area burnt was 400 acres. In *Tinnevelly* the areas under special protection comprised the areas of all the working circle coupes under immediate regeneration, the working plans providing for such protection for a period of five years after they have been felled over. In the area under general protection, the chief fires occurred in Ambásamudram and Tenkási taluks in both of which taluks some grazing compartments were closed to grazing owing to persistent firing of the forests.

26. In *Gódávari*, *North* and *South Coimbatore* the recording of the results of fire protection on maps is being continued and in *Tinnevelly* they are being marked on skeleton maps attached to each working circle. In *Vizagapatam* and *North Arcot* no steps have yet been taken to record the results because no reliable maps are available for the reserves in the former district and the survey of India maps for the reserves in the latter are only just being received. The reports from other districts contain no information on the subject.

(3) Regulation of grazing and protection from cattle.

27. The areas open and closed to grazing in each district are shown in Form No. 52, and the number and kind of animals grazed free or on payment of fees in the reserved forests and reserved lands, in Form No. 53. Owing to the favourable character of the season no reserves were thrown open to free-grazing except in the district of *South Arcot* where some of the firewood coupes continued to be open for over

a month at the beginning of the year. The total area of reserved forests and reserved lands rose from 19,253 to 19,594 square miles. Of these, 1,824 square miles were closed to all animals throughout the year and 132 square miles for a portion of the year, against 1,792 and 233 square miles, respectively, in the previous year. Taking the circles individually, the area closed throughout the year decreased in the *Central* and *Southern Circles* and increased in the *Northern Circle*. In the *Southern Circle* only 115 square miles were closed in *North Coimbatore* against 215 square miles in the preceding year and the decrease is noted with satisfaction. In *Kistna*, *Kurnool* and *Bellary* in the *Northern Circle* some of the areas opened during the previous year were closed, the necessity for keeping them open having ceased to exist during the year under report. A smaller extent was closed in *Trichinopoly* and *Chingleput* in the *Central Circle*. All the reserved forests and lands in *Vizagapatam* to an aggregate extent of 354 square miles, and 5 square miles in *North Coimbatore* were closed to both goats and sheep and permits for these animals were not issued in the districts of *South Canara* and *North Malabar*. 16,421 square miles were closed to goats only, 5,660 in the *Northern*, 6,962 in the *Central* and 3,799 square miles in the *Southern Circle*. The area open to all animals decreased from 1,247 to 996 square miles. In *Vizagapatam* goats and sheep were admitted during the previous year in 275 square miles open to other animals but were excluded entirely from these areas during the year under report; and this accounts for the decrease in the area open to all animals in the *Northern Circle*. In *Kistna*, *Kurnool* and *Bellary* the extent open was slightly larger than in the previous year. In *Anantapur* sheep were admitted for the first time into all the reserves that were open to grazing.

In *Cuddapah* larger provision was made for goat-browsing, the area reserved being 65 square miles against 61 in the previous year. In *Nellore* and *Chingleput* the area set apart for these animals was reduced from 35 and 18 square miles to 18 and 13 square miles, respectively. The grounds of reduction in the former district are not apparent. In the latter district part of the area required rest and had to be closed. In *Salem* and *North Arcot* 15 and 12 square miles, respectively, were made available. A scheme for further extension in *North Arcot* is under consideration and will be started from 1st January 1900. The extent now allowed for the purpose in *Kistna* has proved to be insufficient and the question of further provision is receiving the attention of the District Forest-officer. As in the *previous* year goats were strictly prohibited in *Ganjám*, *Gódávari* and *Anantapur* in the *Northern Circle*, in *South Arcot* and *Trichinopoly* in the *Central Circle*, and in all the districts of the *Southern Circle*. In *Ganjám*, *Vizagapatam*, *Anantapur*, *Trichinopoly*, *Coimbatore* and *Tinnevelly* no provision is said to be required as there is ample unreserved waste available and the statistics of the animals impounded in these districts merely shows that the goat owners prefer to risk driving them into the reserves where the forest growth is better than on the unreserved waste. In *Gódávari* and *Madura* schemes have been completed for the purpose. In *South Arcot* where the goat difficulty is most pressing it has been decided that even where considerable areas of village waste have been brought under reservation, provision for the admission of goats into reserved forests should not be made if the number of permits actually issued for cattle and sheep is already excessive and shows that no spare ground is available for goat-browsing. In *Kurnool* each reserve was treated as separate grazing ground and a separate permit required for each reserve. This arrangement brought many complaints and steps are now being taken to issue permits for a working circle consisting of two or more reserves instead of for a single reserve. The number of cattle admitted under licenses is shown in the following abstract:—

—	Buffaloes.	Bulls and cows.	Sheep.	Goats.	Other animals.
Northern Circle	67,270	378,446	396,957	118,899	163
Central Circle	27,433	606,821	579,597	53,644	3
Southern Circle	21,599	279,379	69,667	..	236
Total ..	116,302	1,264,646	1,046,221	172,543	402

The permit system was introduced during the year for all grazing areas in *Nellore* except three which were leased out under the five years Kancha system which expired by the 30th June 1899. This is the only district in which fees were levied for grazing in unreserved areas and licenses were issued to 1,479 buffaloes, 6,559 cows and 20,996 goats or sheep. In *South Canara* grass from several blocks were sold at auction to neighbouring ryots who collected and removed it at their own cost. Grazing permits at three annas per hundred per diem were issued in the *Nilgiris*, under the rules of the district, for the pack bulls and cows of travelling tribes and merchants conveying grain from place to place. In *North Malabar* a lease was granted to Mr. MacDonald, a planter, at Kurtikulam allowing him to graze not more than 900 cattle in the adjoining reserves on payment of Rs. 100 per annum.

(c) *Improvement of Forest growth.*

(1) Natural reproduction.

28. The year was on the whole favourable to natural reproduction and the progress under this head may be regarded as satisfactory. The following has been culled from the district reports:—

Northern Circle.

Reproduction from seed was good in *Ganjám* particularly that of *Bambusa arundinacea*. In *Vizagapatam*, *Chloroxylon swietenia* continued to coppice freely in all the coupes. In *Góddávari* there was a good growth of *Tectona grandis*, *Terminalia tomentosa* and *Xylia dolabriformis* besides several other species which regenerated well. In *Kistna* the coppicing of *Acacia arabica* is reported to be satisfactory, shoots rising to 10 feet in four seasons, cattle being excluded. *Hardwickia* reproduced itself satisfactorily in the closed portions of the Bollapalli, Kakirala and Guttikonda forests. Bamboo has thriven well in the Kondavid reserve. In *Kurnool* reproduction was favoured by the comparative absence of fires. Seedlings of *Pterocarpus santalinus* and regrowth of bamboos were most prominent. In *Bellary* and *Anantapur* natural reproduction was unsatisfactory owing to the extreme dryness of the climate. Except in areas under rigid protection the seedlings of *Hardwickia* died off after the cessation of the rains.

Central Circle.

Regeneration was poor in *Cuddapah* owing to scanty rain. Experiments were made in Kodur hill and Thanakonda reserves in 1896 and in the past year, to determine the best months in which to fell for coppice. In the experiment made in 1896 standards were left and in that in 1898 the areas were clear cut. In the coupes in the Kodur hill reserve the coppice is reported to be fair and the best months for cutting to be September to January. In Thanakonda reserve the coppice is good though the leaves are drying up from want of rain. August to January seems to be the best months and April and May distinctly the worst. Coppice shoots appear about three months after felling. Yelama (*Anogeissus latifolia*) is the species by which the result of the experiment was principally judged. In *Nellore* reproduction was not promising owing to continued west wind which was a most parching one. An experiment similar to that made in *Cuddapah* to determine the effects of clean coppice as opposed to leaving standards and the months best suited for cutting is being tried but no decided conclusion has yet been arrived at. In *Chingleput* regeneration from coppice was satisfactory but that from seed not so promising. In *North Arcot* reproduction from seed in closed areas was good except that of *Pterocarpus santalinus* which was poor owing to want of cover; that from coppice was also encouraging. Root suckers in the Gudiyattam range were thriving well. In *South Arcot* the observation on the growth of coppice shoots recorded in the report for 1897–98 was kept up and some data collected, but it is suggested that they should be reserved until next year. In *Salem* natural reproduction from coppice continued to make satisfactory progress in the coupes felled on the coppice with standard system during previous years while that from seed in some of the specially protected areas was fairly good. This was particularly noticeable in the Singarapatti block where numerous *Chloroxylon swieteinia* (Satinwood), *Acacia Catechu* and *Albizzia amara* seedlings were found. In areas not under special protection, reproduction is generally unsatisfactory and only existed in places where the thorny undergrowth protected the seedlings from being grazed over by cattle. In *Trichinopoly* regeneration from seed and coppice was good, the chief species being *Inga dulcis*, *Acacia arabica*, *Cassia florida*, *Chloroxylon swietenia*, *Mimusops hexandra*, *Albizzia amara* and *Acacia planifrons*. *Casuarina* did not coppice satisfactorily in the Coleroon and Cauvery padugais while *Memecylon* did well in the felled coupes of the Udaiyarpálaiyam range. As stated in the report for 1897–98 reproduction from seed and coppice growth of casuarina was unpromising. In *Tanjore* reproduction from seed was not satisfactory owing to the dry sandy nature of the soil; the coppice growth of casan (*Memecylon*) in the Vettangudi and Point Calmere reserved forests was good.

Southern Circle.

In *South Canara* natural reproduction from seed was excellent in the ever-green forests on the ghâts. It is here where the *Pæciloneuron Indicum* occurs in profusion and in almost pure forest which it is hoped will prove a valuable timber for sleeper and paving block purposes. The coppice growth in blocks felled for fuel was generally excellent and often remarkable, that of *Acacia catechu* was reported to be very good and greatly assisted by successful fire protection. Fires and dense undergrowth of brushwood and grass continue to retard natural reproduction in *North Malabar*. Towards the end of June *Teak* and *Xylia* seeds were sown broad cast over some 20 patches where dead bamboos had been burnt. The latter germinated at once and where growing, the former did not germinate by the close of the year. In *South Malabar* regeneration from seed was excellent, notably *Dalbergia latifolia* and *Xylia*; that from coppice in Walayar was very fair and seedlings sprung up in large numbers in Chenat Nair reserve and in Palghat range. In the *Niligirs* natural reproduction from seed in the outer slopes of the hills in the Coonoor range was poor. In Segur range it was better and numerous seedlings were noticeable. In Mudumalai range Teak (*Tectona grandis*), Vengai (*Pterocarpus marsupium*) and blackwood (*Dalbergia latifolia*) were growing fairly well. The forests in this range have been so much drawn upon for the supply of the more valuable timbers that it has been decided to give them an entire rest for some years to come. The coppice reproduction in the Eucalyptus plantation was as vigorous as ever. In *North Coimbatore* the growth from seed was poor in the case of *Teak* (*Tectona grandis*) but good in respect of Acha (*Hardwickia binata*). Coppice reproduction was satisfactory. In *South Coimbatore* there was a fair growth of *Hardwickia binata* seedlings in the Gopanari reserve. Seedlings of *Bassia elliptica*, *Messua ferrea*, *Pæciloneuron pauciflorum* came up in great profusion in the ever-green forests on the Anamalais, but there seemed to be a tendency for the former to die out. Coppice growth was good in Singara tope and Aiyarangal Working Circles. In *Madura* regeneration from seed in the ever-green forests was good and coppice growth of *Albizzia amara* was also satisfactory. The condition of timber trees in the deciduous forests was poor. Coppice growth was satisfactory in *Tinnevelly* in coupes felled over.

(2) Artificial Reproduction, Plantations and Cultural Operations.

29. The area under plantations, topes and cultural operations, together with the cost incurred thereon during the year under report, is given in Form No. 54.

The following is a summary of the year's work:—

No fresh planting was undertaken in Agusti Nowgam reserve in *Ganjám*. Work was confined to the maintenance of the young plants at a cost of Rs. 940 and the plantation is reported to be doing well. The *Ceara rubber* trees planted out in 1895–96, 111 in number, are doing well. The *Swietenia macrophylla* and *Switenid mahagoni* planted out in Russelkonda died, but of those planted in Napier Park, nine are alive and in good condition. In *Vizagapatam* seeds of date and *Terminalia chebula* were sown in the blanks of the coupes of the Madalammakonda, Arlova and Reddapalli reserves with indifferent success owing to the damage done to them by wild beasts. Tamarind seeds were sown in nurseries. They have germinated freely and the seedlings will be planted in the blanks in reserves. In *Gódávari* the two casuarina plantations were increased by an additional total area of 16·48 acres at a cost of Rs. 886. In *Kistna* 20 acres in coupes Nos. 9 and 11 of Gopuvanipalem, and 50 in Chirala, reserves were planted with casuarina at a cost of Rs. 8 and Rs. 4 per acre respectively. *Bambusa arundinacea* together with *Divi Divi* and *Mangifera Indica* were planted in Weld reserve block I. One hundred acres in Pandillapalli and 50 in Nayanapalli reserves were also planted with a mixed crop. The nurseries in the Weld reserve were well stocked. In *Bellary* the Kuppagal plantation was extended by an addition of 193 acres. *Seeds of date*, *Nim*, *palmyra* and *Albizzia Lebbek*, were sown in furrows. The seedlings of the palmyra were doing well. The date germinated freely, but the drought which followed the rains killed nearly all the seedlings. Of *Nim*, and *Albizzia Lebbek* only a small percentage came up. The *Albizzia Lebbek* plants put out in 1892–93 are reported to have grown to an average height of 15 feet and girth of 18 inches. The operations carried on in the Tungabhadra plantation have not been a complete success. The failure is partly attributed to insufficient supervision. Patch sowings under shelter were made on an extensive scale in Sanduru and Adóni ranges but with little success, the seedlings which appeared having withered after the cessation of the rains. The chief work in *Anantapur* consisted of the sowing of the date seed in 11 acres in Kothakota reserve, 15 acres in Anantapur reserve, 12 acres in Kojjipalli and 27 acres in Kakiti. The seed germinated freely except in Kojjipalli where the operations were begun late in the year. The seedlings continued to do well in all the reserves until the commencement of the hot weather, when for want of rain they showed signs of withering. Their condition towards the close of the year was not satisfactory. Twelve acres in Illuru reserve were sown with babul (*Acacia arabica*) seed, but the operation was a failure owing to want of rain.

In *Cuddapah* seeds of various sorts including palmyra, tumma (*Acacia arabica*) and date were sown in Proddatur range. The seedlings of palmyra are reported to be doing well. In Pullampet and Madanapalle seedlings of different species were planted out, but they were not doing well owing to want of rain. Sandalwood seeds were also sown in the forest tope at

Madanapalle. They germinated and were doing well. There was an addition of 207 acres to the plantations during the year in *Nellore*. The younger plants of the preceding monsoon were also watered. Several acres of seedlings were washed away by the sea during the year, but the area was replanted immediately and the plants are doing well. The operation in *Chingleput* consisted of the maintenance of the previous year's plantations. In *North Arcot* 10,000 seedlings of various species including teak were planted in the Kylasagiri reserve and 5,000 in Palamadi reserve in August 1898 at a cost of Rs. 367 and Rs. 201, respectively, but only 1,411 in the former and 2,238 in the latter survived owing to heavy rains at the close of 1898 and to want of sufficient watering and proper supervision. In both the reserves the soil is barren and water has to be carried some distance. It is proposed in future to leave these areas to natural reproduction of indigenous species and to undertake planting operations in bungalow compounds where water is near and supervision good. In Ambur bungalow compound 194 seedlings of red sanders, teak (*Tectona grandis*) and sandal were planted with only 11 casualties. Casuarina planting is proposed to be continued in the river side plantations near Vellore as there is a good market for firewood at the Central jail and at the Kolar gold mines for props. In *South Arcot* 58 acres were planted with casuarina in four localities at an average cost of Rs. 14 per acre against Rs. 15–13–0 in the preceding year, and the decrease in rate is due to the more favourable character of the season in the year under report. The casualties in the experimental bamboo planting still continued and it is noted that a special report on the subject is promised. In *Tanjore* an area of 46½ acres was planted with casuarina in Tirumalaivasal at varying distances. The number of plants amounted to 57,675 and the plants are reported to be doing fairly well. Four thousand palmyra seeds were dibbled along a portion of the western and eastern boundary lines of the Vettangudi reserved forest.

In *South Canara* no fresh additions were made to the plantations. The attempt to dibble in seeds of various valuable kinds of timber, such as teak, jack and wild jack in some blocks in the Puttur range was unsatisfactory. The system, referred to in the last report, of planting up forest areas cleared for migratory cultivation with teak seedlings promises to be a success. Thirty-eight thousand and seven hundred plants were put out in parts of two areas cleared for cultivation to the extent of 200 acres, of which 22,230 are thriving and have been paid for at the rate of Re. 1 per 100. There are plantations of teak, blackwood, vengai (*Pterocarpus marsupium*) and sandalwood in small areas in the several ranges of *North Malabar*. In most instances the teak is reported to be doing fairly well. The teak as well as blackwood and vengai (*Pterocarpus marsupium*) were planted also in tuckles, abandoned areas of migratory cultivation by the Kurumbers, and were fairly reported on. The sandalwood, planted, is said to be looking more healthy but of uncertain success. In *South Malabar* the 80 acres prepared last year were planted up with teak and a fresh area of 80 acres was cleared and the site prepared for planting. Casualties were replaced and the saplings smashed by wild elephants cut back. The planting of 24 acres in Ramalur was completed and replacement of casualties attended to. *Swietenia macrophylla* was planted with much success in parts where teak has failed. The attempt to raise bamboos from seed was only partially successful probably owing to old seed having been used. The attempt to grow *mahagony* at Mudumalai and Benne in the *Nilgiris* has been a complete failure. In *North Coimbatore* attempts were made to re-stock some palmyra areas in Erode with success. An experiment was made to introduce bamboos by means of root-shoots into the Vellore reserve in Erode taluk. One clump has survived and it is said that the experiment will be extended when the rains commence. Experiments in combining natural and artificial reproduction of sandalwood were only partially successful. In *South Coimbatore* 16 acres of the area previously treated in the Tekadi leased forest were re-cleared and seeds of teak, vengai (*Pterocarpus marsupium*) and rosewood were dibbled in. The experiment was only partially successful. The attempt to grow plants of valuable trees with castor-oil crops in Singara tope working circle was a failure and was abandoned. In *Madura* the *Eucalyptus globulus* plantation in Gundenshola was increased by 21,000 plants put out in compartment IX. In compartment X, 21,500 pits were dug and in compartment XI, 5,683 casualties replaced.

(3) Early thinnings, (4) other operations for the improvement of the growing stock.

30. In *Kurnool* bamboo thinnings were conducted near Chelama in the Nallamalai hills. The work of cutting creepers was carried on systematically in *Cuddapah* in the Balapalle working circle. In *North Arcot* the dead and suppressed casuarinas in the plantations were thinned out. They were converted into billets and sold to the Central Jail at Vellore and to the Ránipéttai Sugar Works as firewood. Seven hundred and forty-seven tons and 240 casuarina poles were cut, out of which 548 tons and 176 poles were sold at a net profit of Rs. 3–9–11 per ton and Rs. 3–3–11 per pole. Some prickly-pear clearings were also attended to in the plantations. In *South Canara* thinning operations were conducted over 44½ acres to free the *Hopea* from being overtopped and suppressed. Seventeen acres of the Parappa teak plantation were also thinned and 2,700 poles obtained. Climbers were cut in 65 acres. In *North Malabar*

most of the plantations were weeded and selection felling was carried on in the Kurichiyat block of 1,300 acres by leasing it out to contractors for three years at Rs. 4 per acre on the condition of their removing all trees marked by the ranger and all creepers. In *South Malabar* 736 acres of teak plantation were thinned but most of the produce was small. No weeding was done in plantations over ten years old. Parasites were cleared in some plantations. Caterpillars which were not successfully identified appeared in myriads as usual in April and completely defoliated many of the plantations. Such attacks are a standing menace in unmixed plantations. In *South Coimbatore* ten coupes of the Sholakarai working circle were given on contract for bamboo thinnings, the contractor leaving ten bamboos standing in each clump. In *Tinnevelly* the growth of the seedlings of valuable species in the coupes was encouraged by a cleaning operation.

(5) EXPERIMENTS.

31. Experiments with exotics were continued during the year. An account of the various kinds tried and of the progress made is given below :—

Acer campbellii.—There are very few plants on the *Nilgiris*; their growth is slow.

African seeds.—In *South Malabar* these plants do not appear to thrive well; only 28 plants survive.

Agave ixtyle (Sissal hemp).—Fifty pits were planted with this in Kuppagal in *Bellary* and the plants are reported to be in a thriving condition.

Bamboos.—The various kinds in *South Malabar* are doing well. *Arundinaria Brandisoii* planted in Ayaravallikava continues to flourish, the largest clum being 21″ in circumference. Of the five clumps of *Bambusa vulgaris* (yellow bamboos) planted in 1879, only one continues to flourish; the rest are slow in growth though not unhealthy.

Bucklandia populnea.—The growth of those planted in 1887–88 on the *Nilgiris* is fairly good on the whole.

Ceara rubber.—Of the trees planted out in 1895–96 in Napier's Park in *Ganjám*, 111 are reported to be doing well. Of the 435 trees in *South Arcot* mentioned in the last year's report, one was carried away in flood. The trees in *South Malabar* are doing well. No attempt was made during the year to tap them. In *South Coimbatore* 5,000 seeds were obtained from Ceylon during the year and sown in nurseries, of which only 474 germinated at the close of the year. Four plants died and the remainder are reported to be in good condition.

Date.—Seeds were sown in some of the reserves in *Anantapur* and they freely germinated. The present condition of the plants in most cases is reported to be precarious for want of rains. Those planted in *North Arcot* in previous years have been fairly successful. In *South Arcot* some of the plants died from excessive rain. The 14 plants of 1881 in Vettangudi reserve in *Tanjore* survived with no improvement in their growth. In the North date garden, of the 221 plants of 1881 only 136 survived. Of the 61 plants of 1886, 37 died during the year leaving 24 surviving. They have not fruited. The date planting in the district is reported to be unsuccessful. The cultivation of these plants in *South Malabar* is reported to be a failure.

Dillenia indica.—Of the 95 seedlings in *South Coimbatore* mentioned in the last year's report, only 73 are alive and the rest have died.

Divi divi.—There are 225 plants in *South Arcot*, the height of these varying from 1 feet 2 inches to 13 feet 6 inches.

Ficus elastica.—The cuttings put out in 1897 at Begur and at Manantoddy in *North Malabar* are growing vigorously.

Grevillea robusta.—The plants put out in the Manantoddy office compound in *North Malabar* continue to do very well.

Hevea braziliensis.—In *North Malabar* about 7,000 seeds of this species were obtained from the Botanical Garden, Ceylon, in September 1898 and were planted out in baskets in two different places.

Mahogany.—Nine plants are living in good condition in Napier's Park in *Ganjám*, while those planted in Russellkonda perished during the year. The seeds sown during the year in *Bellary* and *Kurnool* have failed to germinate. In *Kurnool* the young trees at Gazulapalli and near Chelama do not show signs of improvement; those at Gazulapalli are withering away notwithstanding the efforts taken to protect them. In *Cuddapah* 440 seeds were sown in Balapalli nursery, of which only 153 germinated and were basketted. These are doing well. Of the 1,200 seeds sown in Madanapalli range, 300 germinated, and even many of these have since died. In *Chingleput* the seedlings put down in previous years are thriving. Among the 50 plants put down in Palamadi reserve in *North Arcot*, there were only three casualties and the rest are thriving. Out of the 503 planted in Mudivaripalli tope, only one survives, the failure of the rest being attributed to the barrenness of the soil. In *South Arcot* some of the plants died owing to excessive rains. In *Tanjore* 25 plants were planted in 1886 in the Vettangudi reserve (nursery), of

which 16 survived at the commencement of the year, 2 of these died during the year, leaving 14 varying in height from 11 feet 6 inches to 25 feet 16 inches and in girth from 9½ inches to 2 feet 11 inches. The two plants in the South date garden of Vettangudi reserve referred to in the last report are alive. The 4 plants of 1881 in the same reserve are surviving and they vary in height from 15 feet 3 inches to 32 feet and in girth from 1 foot 1 inch to 2 feet 11 inches. In *South Canara* the *Swietenia macrophylla* plants in Puttur have grown fairly but it is reported the growth is not satisfactory owing to the attack of Erya caterpillar. The minimum height of a 4 year old sapling is 22½ feet with a girth of 14 inches. The last supply of *mahogany* seed is reported to have failed completely. The few surviving plants at Kanoth in *North Malabar* are doing well, the number of plants being 11 with 30 feet in height. In *South Malabar* the *Swietenia Mahagony* planted in two of the plantations are thriving well in spite of their being dominated by the surrounding species. The growth is reported to be stunted, but this is said to add to its value as it produces fine figuring. The big show tree of the *macrophylla* species in Chathambarai now measures 88 feet 3 inches in height and 76 inches in girth against 87 feet in height and 74 inches in girth last year. The trees at Walayar are dying gradually but those at Dhone are doing well. 6 lb. or about 5,000 seeds were sown during the year and a majority of them have germinated. In the *Nilgiris* the *mahogany* seedlings in Mudumalai and Benne have all died out while those at Kullar nursery are doing well. In *South Coimbatore* 3 lb. of *mahogany* seeds were sown in three ranges and none of the seeds germinated. The plants in the other places mentioned in the previous year's report are doing fairly well with a few casualties during the year. The 3 plants in the Kuvandamalais in the *Madura* district referred to in the last report are doing well. Twenty-five *Swietenia macrophylla* plants were put out in front of the Alagar Hill bathing mantapam and they are growing well.

Peltophorum ferrugineum.—The 24 trees in *Tanjore* referred to in the last year's report stil survive and their height varies from 20 feet to 45 feet and the girth from 1 foot 9 inches to 4 feet 3 inches.

Sterculia alata.—Of the 67 plants that remained in *South Malabar* at the beginning of the year, only 56 now remain alive. The casualties were due to the bark being stripped off by sambhur.

Syncarpia Laurifolia.—The growth of these plants on the *Nilgiris* is good.

(d) *Exploitation of Major Forest Produce.*

(1) Clear or regeneration fellings.

32. In Kistna the Bomminipad plantation which contained a stunted and irregular growth of casuarina trees was cleared to make room for better species. In *South Arcot* and *Tanjore* the casuarina coupes were cut over. In the latter district, 45 acres were felled over by contractors, the trees being sold standing. The yield amounted to 492 tons of sized and 114 tons of unsized wood and realized a rate of Rs. 3–10–9 per ton for the former and As. 12 per ton for the latter. In *South Malabar* 80 acres of natural forest were felled departmentally for the purpose of planting the site with teak. The felled material was sold for Rs. 5,000, of which the sum of Rs. 3,000 was reported to be a clear profit.

(2) Selection fellings.

33. The operation in *Ganjám* was confined to the supply to the Ordnance Department of 7,000 cubic feet of sal timber yielded by trees selected by Range officers. In *Gódávari* a large number of teak and other reserved trees was felled by contractors in the Bhadrachalam sub-division. In Peddapur and Yernagudem ranges selection fellings were carried on departmentally. Three hundred and eighty-six casuarina trees were selected and cut in the Nayanapalli plantation in the *Kistna* district and supplied to the Madras-Bezwada Railway as posts and piles. The felling in *Kurnool* was conducted departmentally and was confined to second and third class timbers for supply to depots and to the Military Department in Bellary. The operations in *Bellary* were limited to the felling of crooked and badly grown teak trees. Some babul trees were also cut to meet the requirements of the Ordnance Department and private firms. In *Anantapur* a few palmyra and babul trees were marked and sold. In *Chingleput* the departmental fellings consisted of babul wood for supply to the Ordnance Department and to the Conjeeveram Municipality—14 tons to the former and 268 tons to the latter—at a net profit of Rs. 5–2–0 and Rs. 3 per ton, respectively. In *North Arcot* bamboos were felled to meet the demands of the Police Department for tent poles and latties and of Messrs. Leighton & Co. Sixty-six redwood trees were felled departmentally in the Chandragiri range for plague sheds at Pakala. In *Trichinopoly* selection fellings of

babul were carried out departmentally for the supply of fuel to the Central Jail, Trichinopoly. Five thousand and ten cubic feet of wood was obtained which realized a net profit of Rs. 336. In *Tanjore* dead trees were cut in the Vattangudi reserved forest and in the casuarina plantations. In *South Canara* 210 trees were felled during the year and yielded 377 logs. These, together with the previous year's stock of 513 logs which remained in the forest unremoved, amounted to 890 logs, of which 616 had been disposed of by sale in the forests or by removal to sale depot. Selection fellings in *North Malabar* were continued in Begur and Kurichiyat and yielded 98,349 cubic feet of timber. Two thousand five hundred and twenty-three *Terminalia tomentosa* trees were felled for seasoning and subsequent conversion into sleepers. Most of the reserves in *South Malabar* were worked on the system of selection fellings. In the *Nilgiris* a number of blue gum and *Acacia melanoxylon* trees were felled for seasoning and conversion into sleepers. In *Coonoor* and *Ootacamund* fuel was cut in the plantations for supply to the public and for manufacture of charcoal. Sandalwood was obtained through the agency of the hill tribes at so much per billet, the trees being marked by the range officer. In *Tinnevelly* 131 trees were marked and felled under departmental supervision and converted into scantlings and poles amounting to 8,410 cubic feet. The species removed were *Hopea Wightiana* and *Balanocarpus utilis*. In addition to this 14,531 cubic feet of timber were removed by contractors from the ever-green forests of the district, the trees being marked by departmental officers and paid for by contractors at a fixed rate per cubic foot of fashioned timber.

(3) Improvement fellings, and (4) coppice fellings and coppice with standard fellings.

34. No improvement fellings were carried on in any of the districts in *Northern Circle*; but coppice fellings and coppice with standard fellings were carried on in *Vizagapatam*, *Kistna* and *Bellary*. In *Vizagapatam* 334 acres of coupes were felled in the Madalammakonda and Arlova reserves. The material obtained was sold as timber, fuel and charcoal, the net profit being Rs. 2–1–4 per acre. In *Kistna* coupe No. 6 of the Guntur babul working circle was sold in accordance with the provisions of the sanctioned working plan. Two hundred and eighty casuarina trees were cut from the unfelled stock of 1895 in the Gopuvanipalam reserve and 815 tons of wood from the Masulipatam mangrove working circle. In *Bellary* fellings were carried on in 6 (*d*), 10 (*d*) and 12 (*a*) sub-compartments of the Ramandrug range in Sandúr leased forests, and the method adopted was coppice with standards. The cost of felling and haulage was Rs. 3,464, and a sum of Rs. 5,588 was realized from sale of a portion of the material. The unsold stock is expected to fetch Rs. 4,777, so that the net profit from the operation amounts to Rs. 6,901 over 588 acres.

In the *Central Circle* regulated fellings were made, over two compartments of 55 acres in the Balapalli working circle in *Cuddapah*. The method adopted was coppice with standards and the cutting was done by a contractor. In the Seshachalam reserve, Pullampet range, 43 tons of redwood poles were felled departmentally and most of them were sold to meet local demands. In *Chingleput* 16 coupes aggregating an area of 2,138 acres were sold, the method of working being coppice with standards. The purchasers of coupes were compelled to cut and remove all unprofitable thorny growth, and the material was used in fencing the areas exploited. The advantage of this operation has lately been much canvassed, as the removal of thorns is a harassing work for contractors, keeping down their bids, while the thorny trees in many cases protect seedlings. In *North Arcot* 238 tons of firewood were cut in Mamandur extension reserve for supply to the railway and 263 posts for Pakala plague sheds at a net profit of Rs. 124. Twenty-four coupes aggregating an area of 4,401 acres were felled for coppice under standards by contract and yielded an average price of Rupees 5–9–1 per acre on the total sale amount. In *South Arcot* more standards than usual were reserved in the coupe felled in the Annamalai reserve. A large area of coupes in *Salem* was felled on the coppice with standard system. In *Trichinopoly* five coupes of the Vaiyampatti hill reserved forests, with an area of 390 acres, were worked under the system of coppice with standards. The right of cutting was sold to contractors for Rs. 3,260. In *Tanjore* three coupes comprising 168 acres in the Vettangudi reserved forest were sold to a contractor.

In the *Southern Circle* an area of 289 acres was felled over by a contractor under coppice with standard system in *South Canara*. In *North Malabar* improvement fellings were carried out by contractors at Rs. 4 per acre, the contractor being bound to girdle or fell all marked trees and being at liberty to remove any that he pleased for his own purposes. Coppice with standards was the method of treatment applied to all firewood coupes in *North Coimbatore* and the treatment is reported to be fairly successful.

(5) UNREGULATED FELLINGS.

35. The system of removal of produce under cover of permits continues in almost all the districts for inferior classes of timber, fuel and bamboos required in most cases to meet local demands. In *North Arcot* bamboos in the reserves were sold on contract by blocks and the produce removed on permits issued by the contractors. In *North Malabar* unregulated fellings included also free grants made to poor ryots living in or near the forests and useful to the department in supplying labour when wanted. In Tinnevelly *Acacia arabica* trees over $2\frac{1}{2}$ feet in girth, situated in tank-beds, were marked for sale on permits.

(e) *Extraction and transport of Major Forest Produce by land and water.*

36. In *Ganjám* a supply of timber was made to the Ordnance department and the wood was carted to Gopalpore, where it was handed over to the shipping agents who acted for that department. In *Kurnool* timber is dragged over a rough and uneven track to the foot of the hills by bullocks and thence carted to the depots. The cuttings of coupes in the Sríharikóta forests in *Nellore* are brought down by the tramway to the banks of the Buckingham Canal, whence they are removed by contractors. In *South Canara* lately a road has been made in the Someshwar block. Transport by water is carried on only in fair weather in the Haladi and Wandse rivers in the Coondapoor range and in parts of the Netravati and Payaswami in the Puttúr range. In *North Malabar* timber felled departmentally is dragged by elephants to convenient depots on the forest roads and there sold by tender to merchants. No floating is done by Government agency though there is a very large private trade in floating timber down from the ghaut forests. A small number of bamboos was, however, floated as an experimental measure from Kanoth to Tellicherry and disposed of there at a small profit. In *South Malabar* timber is extracted from the forests by means of elephants and then floated in rafts to Calicut. In the Chenat Nair reserve of the Palghat range it is carted from the edge of the forests. In *South Coimbatore* the produce extracted was dragged by elephants, then trammed and subsequently carted. The outturn in all the branches was poor. The produce in *Tinnevelly* was as usual transported through roads or paths with the aid of carts, coolies or donkeys.

(f) *Exploitation of Minor Forest Produce.*

(1) EXTRACTION OF FODDER.

37. There was very little demand for fodder owing to early rains. Grass was removed from reserves either by departmental agency or by issue of permits on payment of fees or by the sale of the right to cut it. In *Bellary*, *Kurnool* and the *Nilgiris* it was removed under cover of permits and the revenue in the first-named district amounted to Rs. 815 against Rs. 2,435 in the preceding year. In *South Malabar* a sum of Rs. 110 was realized from sale of grass and in *South Canara* the right to cut it was sold for Rs. 390.

2. GRAZING.

38. In all the districts except *Gódávari*, *Kurnool* and *Bellary* in the *Northern Circle*, *Chingleput*, *South Arcot* and *Salem* in the *Central Circle*, and *North Coimbatore* and *Madura* in the *Southern Circle*, the uniform rate of As. 6 for buffaloes and As. 3 for oxen was levied. In *Madura* and in the two ranges of *Dharmapuri* and *Hosúr* in *Salem*, the increased rates of As. 8 for buffaloes and As. 4 for oxen were continued. In nine out of the eleven reserves classed as "special tracts" in *Gódávari*, the enhanced rates of As. 12 per buffaloe and As. 6 for oxen were charged. The rates sanctioned for the tracts inside the Sim's line in *Kurnool* are Rs. 2, 1 and

As. 8 for buffaloe, cow and goat or sheep, respectively, but quarterly permits at one-fourth of the above rates were alone issued during the year. In the Ramandrug and the North East Ranges and the Donimalai range of the *Sandur* leased forests in *Bellary*, the special rates of As. 8 and As. 6 per buffaloe and As. 4, As. 6 and As. 4, respectively, for oxen were levied, but cattle-owners did not come forward to take out licenses paying the enhanced rates and the anticipations were not realized. It has, therefore, been proposed to levy the usual fees prevailing in the Government forests. In *Chingleput* licenses were issued for 149 oxen at As. 4, being foreign cattle. The foreign cattle grazed in *South Arcot* were charged at the special rates of As. 4 per oxen and As. 2 per sheep. The full fees of As. 8 per buffaloe and the corresponding rates for oxen and sheep were levied throughout the year in *North Coimbatore* and collected without difficulty.

The year under review shows an increase of Rs. 70,138 from grazing and grass removals. The increase occurred in all the circles and is satisfactory. The following abstract compares the results of the present with those of the previous year:—

Circle.	1897-98.	1898-99.	Increase or decrease.
	RS.	RS.	RS.
Northern Circle	1,10,480	1,43,544	+ 33,064
Central ,, ...	1,77,021	2,08,121	+ 31,100
Southern ,, ...	76,404	82,378	+ 5,974
Total ..	3,63,905	4,34,043	+ 70,138

More than half the increase in the *Northern Circle* was contributed by *Kurnool*, the revenue in the district rising from Rs. 16,817 to Rs. 35,446. The increase was mainly due to the fact that during the year a permit was issued for one grazing reserve only and not for the whole district as was previously done. The levy of enhanced special rates and the notification of large areas as reserved lands also swelled the revenue. The increase of Rs. 4,822, Rs. 4,145 and Rs. 3,894 in *Bellary*, *Anantapur* and *Kistna*, respectively, was due to the favourable season. The admission of sheep into the reserves in *Anantapur* also accounted for the increase in the district. The increase of a little over Rs. 1,000 in *Gódávari* was due to the levy of enhanced rates in the special tracts and to more efficient supervision and check of cattle within the reserves. In *Ganjám* and *Vizagapatam* the increase was small and calls for no remark. All the districts in the *Central Circle* except *South Arcot*, *Salem* and *Trichinopoly* showed an advance in the revenue. The introduction of the permit system accounted for the increase of Rs. 9,446 in *Nellore*. In *Cuddapah* the improvement was marked, the figures for the two years 1897-98 and 1898-99 being Rs. 13,943 and Rs. 38,794, respectively, and was due to better season and the consequent absence of free grazing which was allowed during the previous year. The revenue in *Chingleput* increased by Rs. 4,706 due to better supervision and to crediting to this head the compensation fees collected for illicit grazing instead of to the head "Miscellaneous" in previous years. The increase in the number of animals for which licenses were taken contributed to the increase of Rs. 6,188 in *North Arcot*. There was a decrease of Rs. 9,554 and Rs. 4,644 in *South Arcot* and *Salem*. In the former district mortality among cattle by reason of the drought prevailing up to the end of August and even longer in places had some effect in causing the deficit, and want of cash or grain to sell had probably more effect in preventing people taking out permits. The reduction of revenue in *Salem* was due to the decrease in the number of foreign cattle that grazed in the reserves owing to the prevalence of plague in *Mysore* on the frontier of the district. The decrease in *Trichinopoly* was small.

In the *Southern Circle* in all the districts except the *Nilgiris* and *North Coimbatore* the revenue was larger than in 1897-98 due generally to more efficient supervision by the executive officers. The levying of fees in a larger number of reserves than in the previous year in *South Canara* also caused the increase (Rs. 1,183) in that district. The revenue in *Madura* increased by Rs. 4,774. The decrease in the two excepted districts was small.

(3) MISCELLANEOUS PRODUCE.

39. The collection of miscellaneous produce was, as stated in previous reports, leased out to contractors except in localities where want of contractors or adequate

offers necessitated the intervention of departmental agency. In *Vizagapatam* no bidders came forward to purchase the right of collecting minor produce from the Agency tracts owing to the loss sustained by the contractor during the previous year, and the result was that the produce was collected departmentally and realised a net profit of Rs. 14,497, the tamarind crop having been exceptionally good. In *Gódávari* produce is leased out in the Ellore range, while in the other ranges except in Yernagudem and in the sub-division it is removed on permits. In Yernagudem it was not leased out for want of bids. The right of collecting minor produce in *Kurnool* was leased out except in the Nallamalais, where it was allowed to Chentzus free of charge. In *Bellary* a small quantity of Yepi (*Hardwickia binata*) fibre was collected under departmental supervision and sold to betel-leaf gardeners. Leaves for manure were as usual removed on permits in this district as well as in *Anantapur*, *Tanjore* and *Madura*. The collection of *Divi-divi* (*Cæsalpinia coriaria*) was undertaken departmentally in *Chingleput*, *North Arcot* and *Trichinopoly*. In *South Canara* departmental work consisted of the manufacture of catechu, cinnamon and sandalwood-oil and a small quantity of cardamom. Fifteen tons and 854 lb. of catechu, were manufactured during the year at a cost of Rs. 196 per ton and sold for Rs. 732 a ton against 16 tons and 685 lb. manufactured in the preceding year at a cost of Rs. 192 per ton and sold for Rs. 836 per ton. The decrease in the quantity manufactured was ascribed to the prevalence of fever amongst the Malekudis (hill-tribes), and the fall in the rate to the interruption of trade with the Mysore Province owing to plague. Cinnamon-oil distillation was carried on to a limited extent, and the rise in value of sandalwood-oil caused a great demand for stills. In *North Malabar* 3,000 lb. of liquid *gum-kino* were collected departmentally, and about 600 lb. of superior kino were dried in a shed specially constructed for the purpose. 1,000 lb. of dried kino were sold to a firm in Madras at Rs. 2 per lb. and 250 lb. were sold to a firm in Paris for £18¾. Some samples were also sent to many of the large druggists' shops in England and Europe.

CHAPTER III—GROSS YIELD AND OUTTURN OF FOREST PRODUCE.

40. The subjoined abstract shows the total outturn under timber and other produce during the year as compared with that of the previous year :—

ABSTRACT I.—Comparative yield as per Forms Nos. 55, 56, 72A and 72B.

—	Timber (in cubic feet) including sandalwood.		Fuel (in cubic feet).		Bamboos (in numbers).		Minor produce (gross value in rupees).	
	1897–98.	1898–99.	1897–98.	1898–99.	1897–98.	1898–99.	1897–98.	1898–99.
1	2	3	4	5	6	7	8	9
By Government Agency ..	412,399	662,916	2,086,473	2,889,534	258,738	397,177	50,921	41,649
By purchasers (including confiscations)	2,142,931	1,958,096	9,573,202	10,229,486	28,833,424	25,535,500	* 9,05,832	* 9,02,537
By free grants	62,652	54,058	5,168	3,183	203,573	126,970	1,829	2,334
By right-holders	1,811	1,423	257,585	257,523	21,314	21,370	40,411	40,304
Total ..	2,619,793	2,676,493	11,922,428	13,379,726	29,317,049	26,081,017	9,98,993	9,86,824
Increase or decrease in 1898–99 as compared with 1897–98	..	+ 56,700	..	+1,457,298	..	—3,236,032	..	— 12,169
Percentage of increase or decrease over the previous year's total	..	+ 2·1	..	+ 12·2	..	— 11·0	..	— 1·2

* Includes grazing fees.

As almost all Collectors have not given the outturn for each class of forests separately in Form No. 55, it was not possible to comply this year with the orders of the Government of India in paragraph 4 of its letter, dated 17th January 1899, Circular No. 1—229-14-F, printed in Board's Proceedings, Forest No. 226, dated 2nd June 1899.

The variations noted above are explained below under the respective heads.

Section I.—Departmental Operations.

41. The following abstract shows the produce collected and disposed of departmentally during 1898–99 as compared with that of the previous year :—

Produce collected.	During 1897–98.			During 1898–99.		
	Quantity.	Cost.	Average.	Quantity.	Cost.	Average.
1	2	3	4	5	6	7
		Rs.	Rs. A. P.		Rs.	Rs. A. P.
Timber .. .. C. ft.	410,039	59,062	0 2 4	658,882	69,269	0 1 8
Fuel .. .. „	2,086,473	1,01,118	0 0 9	2,889,534	1,18,410	0 0 8
Bamboos .. .. No.	258,738	4,751	0 0 4	397,177	6,489	0 0 3
Sandalwood .. .. C. ft.	2,360	2,756	1 2 8	4,034	4,454	1 1 8
Minor produce .. .. Mds. (25 lb.)	54,188	16,563	0 7 9	33,286	18,246	0 8 9
Total ..	..	1,84,250	..	..	2,16,868	..

Produce disposed of.	During 1897–98.			During 1898–99.			Stock on 1st July 1898.	Stock on 30th June 1899.
	Quantity.	Cost.	Average.	Quantity.	Cost.	Average.		
	8	9	10	11	12	13	14	15
		Rs.	Rs. A. P.		Rs.	Rs. A. P.		
Timber .. .. C. ft.	413,996	2,29,669	0 8 11	418,522	1,67,411	0 6 5	319,434	559,794
Fuel .. .. .. „	2,265,967	1,73,419	0 1 3	2,814,450	1,96,273	0 1 1	656,326	731,410
Bamboos .. .. No.	260,314	9,223	0 0 7	345,390	8,159	0 0 5	18,141	69,928
Sandalwood .. .. C. ft.	3,911	33,699	8 9 10	3,301	27,796	8 6 9	404	1,137
Minor produce Mds. (25 lb.)	71,821	32,291	0 7 2	59,927	50,008	0 13 4	41,875	15,234
Total ..	..	4,78,301	..	..	4,49,647	..	..	..

There was an increase in the total quantity of produce collected departmentally under all heads except "Minor produce." Taking the districts individually, there was a noteable increase under "Timber" in *Ganjám*, *Bellary*, *Cuddapah*, *South Canara*, *North Malabar* and *South Coimbatore*, while *Kistna* and *South Arcot* showed a decrease. In *Ganjám* the increase is ascribed to the large number of darkhast applications put in during the year which necessitated the felling and removal by the Forest department of all the trees on such lands; and in *Bellary* to the fellings under the provisions of Mr. Hooper's working plan which was not adhered to during the previous year. The larger collections of redwood roots and stumps in *Cuddapah* when compared with that of the previous year contributed to the increase in that district, while that in *South Canara* was the result of brisk demand. In *North Malabar* the increase was due to the felling operations having been pushed on more vigorously than in the previous year (1) for conversion into railway sleepers, and (2) to meet the demand of the Ordnance Department. The larger quantity of timber felled in the Tekadi leased forests as compared with that for the preceding year, the felling of a larger quantity (24, 340 cubic feet) of timber in the area leased out for coffee cultivation on the Anamalais and the operations in the Ayirangal working circle accounted for the increase in South Coimbatore. The decrease in *Kistna* was as in the previous year due to the smaller number of casuarina trees available in the Gopuvanipalem plantation and to the absence of demand from the Madras-Bezwada Railway which was completed during the year; and in *South Arcot* to restriction of departmental felling in favour of removals by consumers or purchasers.

Under "Fuel" the increase occurred chiefly in *Bellary*, *Nellore*, *Chingleput*, *Salem*, and the *Nilgiris*. This increase was somewhat counterbalanced by decreases in *Kurnool*, *North Arcot*, *South Arcot*, *Trichinopoly*, *South Canara*, *Madura* and *Tinnevelly*. The increase in *Bellary* was due to causes already noted under "Timber." The difficulty which was experienced during the previous year in procuring labour in *Nellore* was not met with during the year under report owing to absence of fever on the coast and this fact explains the increase in that district. A more extensive sale of babul wood to the Ordnance Department and to private contractors in *Chingleput* and the supply of a larger quantity of engine fuel to the Madras Railway Company from the *Salem* district accounted for the increase in those districts, while in the *Nilgiris* it was due to

increased demand for fuel and charcoal from the town of Ootacamund. The decrease in *Kurnool* was due to the fact that the improvement fellings at Chelama were not made during the year owing to contractors not forthcoming to purchase the white wood as advertised according to the approved working arrangements. The cessation of demand for engine fuel from the Madras and South Indian Railway Companies in the *North Arcot* and *South Arcot* districts, and the smaller indent received from the South Indian Railway for fuel from the *Trichinopoly* district accounted for the decrease in those districts. In *South Canara* the decrease was due to the curtailment of felling operations owing to the growth in a compartment of the Sabladi reserve having been subsequently found not fit to be exploited. The decrease in *Madura* and *Tinnevelly* is ascribed to cessation of departmental felling in Patnam and Manjampatti coupes in Palamedu range in the former district and to the restricted operations of the Padarmalai coupe in the latter district.

Under "Bamboos" the increase was distributed chiefly over *Vizagapatam* and *North Coimbatore*. The increase in *Vizagapatam* was due to large exportation of bamboos to the Ganjám district, and that in *North Coimbatore* to the adherence to the strict regulations concerning fellings in the Bhaváni range.

Under "Sandalwood" the increase occurred in *Salem* and *North Coimbatore*. The increased collection in *Salem* was due to the digging during the year of old stumps and roots of sandalwood trees felled in previous years in Námakkal and Hosúr ranges, while that in *North Coimbatore* has not been explained.

Under "Minor produce" the decrease was small and occurred chiefly in *Nellore* and *North Coimbatore*. This decrease was partly counterbalanced by increase in *Vizagapatam*, *South Arcot* and *North Malabar*. The short crop of gallnuts and the low prices realized on account of plague which affected the skin market accounted for the decrease in *North Coimbatore*, while that in *Nellore* has not been explained. The increase in *Vizagapatam* and *North Malabar* was due to increased collection of avuru grass and gum kino, respectively. The variation in *South Arcot* has not been explained.

Under "disposals" the quantity of timber sold showed an increase on the sales of the preceding year. The increase occurred principally in *Ganjám*, *Kurnool*, *Bellary*, *Cuddapah* and *South Canara*, and was somewhat counterbalanced by decrease in *Kistna*, *South Arcot*, *North Malabar*, *South Malabar* and *South Coimbatore*. The explanation furnished under collection accounts for the variation in *Ganjám* and *South Canara*; in *Kurnool* to sale of a large quantity to the Military Department, and in *Bellary* to better demand from the people for timber cut and kept ready for sale. The increase in *Cuddapah* was due to brisk demand, while the decrease in *Kistna* and *South Arcot* was due to reduced collection. The decrease in *North Malabar* was due to the inability of the contractors to cart the wood to Mysore owing to the prevalence of plague in that province which is the chief market for the timber of that district. The variations in *South Malabar* and *South Coimbatore* have not been explained by the Collectors.

The quantity disposed of under "Fuel" shows an increase which occurred mainly in *Bellary*, *Nellore*, *Chingleput*, *Salem*, the *Nilgiris* and *South Coimbatore*, and a decrease in *Kurnool*, *North Arcot*, *South Arcot*, *South Canara*, *Madura* and *Tinnevelly*. The explanation furnished under timber accounts for the increase in *Bellary*. The increase in *Nellore*, *Chingleput*, *Salem* and *Nilgiris* is ascribed to causes already explained under collections. The increase in *South Coimbatore* has not been explained. The decrease in the districts mentioned above was due to causes already explained under collections.

The increase in the disposals of "Bamboos" occurred mainly in *Kurnool* and *North Coimbatore* partly counterbalanced by decrease chiefly in *South Malabar* and *South Coimbatore*. The causes of increase and decrease have not been explained by the Collectors concerned.

The decrease under "Sandalwood" occurred chiefly in the *Nilgiris* and was due to sale in the previous year of the stock collected during 1896–97.

Under "Minor produce" the decrease was due chiefly to the inclusion under disposals in the previous year of a very large quantity of avuru grass written off the accounts in the *Vizagapatam district.*

As regards average cost of collection there was a decrease under all the heads except "Minor produce." The decrease was chiefly due to the low rates paid in *Ganjám* and *South Coimbatore* for cutting timber on darkhast lands, and on the area leased out for coffee cultivation, respectively, and the transport of a small number of logs to the

sale depots in order to secure seasoned timber for the saw mill in the latter district. The decrease in the rates for "Fuel" and "Bamboos" is small and calls for no remark. That under "Sandalwood" was due principally to extra charges incurred during 1897–98 in *North Coimbatore* for bringing to head-quarters the stock of that year as well as that of 1896–97. The increase in the rate for "Minor produce" was due to collection of valuable produce such as deer and sambhur horns, wax, &c., in *North* and *South Coimbatore*.

The average rate of sales shows a decrease under all heads except "Minor produce." A considerable number of small trees on darkhast lands fit only for firewood was sold in *Ganjám* and consequently fetched a small price. This fact and the smaller qnantity of valuable timber sold during the year in *North Malabar*, *South Malabar* and the *Nilgiris* account for the decrease under timber. Under "Fuel" the decreased average rate of sales was due (1) to deterioration in value of fuel cut in the previous year in *Kurnool*; (2) to better prices secured in *Bellary* during the previous year; and (3) to sale of a larger quantity of inferior fuel in *Salem* as compared with that sold in the previous year. The decrease under "Bamboos" was due to slack demand for the produce in *Kurnool*, to sale by auction of the bamboos rejected by the Ordnance Department in *Bellary* and *North Arcot* and to inferior kind of bamboos sold in *North Coimbatore*. Under "Sandalwood" the decrease occurred in *North Coimbatore* due mainly to dullness of home market for the produce. The increase under "Minor produce" was due to better selling rates obtained for the several kinds of produce during the year in *North Coimbatore*, to sale of valuable products in *South Coimbatore* and the *Nilgiris*, and to the inclusion in the previous years' disposals of a large quantity of avuru grass written off in *Vizagapatam*.

42. The subjoined abstract shows the quantity and value of timber and other produce removed by purchasers compared with the results of the preceding year:—

(Form No. 72A.)

Abstract K.—Produce removed by purchasers.

	During 1897-98.			During 1898-99.		
	Quantity.	Amount of sales.	Average.	Quantity.	Amount of sales.	Average.
Northern Circle.	TONS.	RS.	RS. A. P.	TONS.	RS.	RS. A. P.
Timber .. .. .. C. ft.	967,369	1,08,203	0 1 9	1,109,119	1,15,757	0 1 8
Firewood .. .. .. ,,	2,077,816	47,746	0 0 4	2,683,229	59,575	0 0 4
Bamboos .. .. .. No.	12,264,891	61,930	0 0 1	14,223,975	67,983	0 0 1
Grass and grazing	..	1,10,463	..	..	1,43,594	..
Minor produce	..	2,46,345	..	..	1,67,455	..
Total ..	..	5,74,687	..	..	5,54,364	..
Central Circle.						
Timber .. .. .. C. ft.	778,857	92,589	0 1 11	510,865	59,030	0 1 10
Firewood .. .. .. ,,	4,059,078	1,56,964	0 0 7	3,058,873	1,07,643	0 0 7
Bamboos .. .. .. No.	12,303,451	98,693	0 0 2	7,291,137	44,050	0 0 1
Grass and grazing	..	1,76,968	..	..	2,08,171	..
Minor produce	..	2,13,738	..	..	2,12,071	..
Total ..	..	7,38,952	..	..	6,30,965	..
Southern Circle.						
Timber .. .. .. C. ft.	344,351	48,393	0 2 3	275,561	31,215	0 1 10
Firewood .. .. .. ,,	3,357,082	73,761	0 0 4	4,381,191	1,12,586	0 0 5
Bamboos .. .. .. No.	4,178,232	24,079	0 0 1	3,978,543	18,728	0 0 1
Grass and grazing	..	76,614	..	..	82,402	..
Minor produce	..	81,243	..	..	88,054	..
Total ..	..	3,04,090	..	..	3,32,985	..
Presidency Total. Timber .. .. C. ft.	2,090,577	2,49,185	0 1 11	1,895,545	2,06,002	0 1 9
Presidency Total. Firewood .. .. ,,	9,493,976	2,78,471	0 0 6	10,123,293	2,79,804	0 0 5
Presidency Total. Bamboos .. .. No.	28,746,574	1,84,702	0 0 1	25,493,655	1,30,761	0 0 1
Presidency Total. Grass and grazing ..	..	3,64,045	..	..	4,34,167	..
Presidency Total. Minor produce	..	5,41,326	..	..	4,67,580	..
Grand Total of Sales ..	..	16,17,729	..	..	15,18,314	..

The total value of removals in the year under report, as compared with that of the previous year, shows a net decrease of Rs. 99,415 as shown in the margin.

	Rs.
Timber	— 43,183
Fuel	+ 1,333
Bamboos	— 53,941
Grass and grazing	+ 70,122
Minor produce	— 73,746
	— 99,415

The decrease occurred under all classes of produce except "Fuel" and "Grass and grazing" Under "Timber" the decrease occurred chiefly in *Ganjám*, *Kurnool*, *Salem*, *South Malabar*, *South Coimbatore* and *Madura*, partly counterbalanced by a large increase in *Gódávari* due to large removals of teak poles from the unreserved lands of Bhadráchalam, Marrigudem and Rékapalli ranges and to the credit of the value of trees on darkhast lands collected by Revenue officers. In *Ganjám* unreserved lands were closed to felling of sâl for eight months in the year pending valuation surveys and the closure resulted in the sales of inferior species which fetched lower prices. In *Kurnool* the issue of permits for third-class timber in Nandyal and Sírvel ranges was stopped and this accounts for the decrease in that district, while in *Salem* it was due to the restriction placed on removals by timber merchants and traders, of first class and reserved timber in large quantities pending regulation of such fellings on a proper system. In *South Malabar* the decrease was due to the cessation of fellings in the New Amarampalem reserve. Contractors were rapidly working out all the accessible timber from the valuable forest and it was consequently found necessary to close it for further fellings, pending the preparation of a systematic working plan. In *South Coimbatore* the removals of inferior classes of timber accounted for the decrease. In *Madura* it was due to the credit of the value of trees removed from poramboke lands to II (*b*) instead of to II (*a*) as in the last year, because the timber removed was suitable only for fuel; besides, the number of darkhast applications put in during the year was less than that in the previous year. The net increase under "Fuel" was small. Taking the districts individually there was a large increase in *Gódávari*, *Madura*, and *Tinnevelly*, partly counterbalanced by large decreases chiefly in *Cuddapah*, *Chingleput*, *North Arcot* and *South Arcot*. The increase in *Gódávari* was due chiefly to credit during the year of the lease amount of the Coringa reserve, of the proceeds of casuarina trees sold to Public Works Department, and of dead and windfall trees on Asalminha (lands held free of assessment), and unreserved lands to this head. The causes already explained under timber and the sale of coupes in Kanavoipatti, Palamedu and Cumbum ranges contributed to the increase in *Madura*, while that in *Tinnevelly* was due to sales of a larger number of coupes. The decrease in *Cuddapah* was due to the discontinuance of the contracts for the supply of engine fuel, while that in *Chingleput* was due to disinclination on the part of purchasers to undertake felling operations on areas of more than moderate dimensions. The continuous rainfall in the closing months of the year tended also to restrict the sale of coupes in that district. The substitution of coal from the Singareni fields for engine fuel by the Madras Railway Company resulted in a fall in demand for the coupes in *North Arcot* and consequent decrease in sales; while in *South Arcot* there was no demand for most of the coupes. The decrease under "Bamboos," which was large, occurred mainly in *North Arcot* and *Salem* and was partly counterbalanced by increase chiefly in *Gódávari*. In *North Arcot* the whole amount of the leases running for fifteen months, from 1st April 1898 to 30th June 1899, was shown as sales during the previous year and this accounts for the decrease under this head in the district. The decrease in *Salem* was due to restrictions of fellings and to the prevalence of plague at Bangalore. The increase in *Gódávari* was due to brisk demand in the market at Rajahmundry.

As regards "Minor produce" the decrease occurred chiefly in *Bellary*, *Anantapur*, *Cuddapah*, *Chingleput* and *North Arcot*. The decrease is generally ascribed to the withholding of the sale of the tangedu leases in consequence of low rates tendered on account of plague and of depression in trade. It was also in a measure due to the unrealized balances from certain tangedu bark lessees in *Anantapur* and *Chingleput* and from the Kurivithittu shell contractors in the second mentioned district and the fall in the sales of amroy in *Cuddapah* consequent on the disinclination of the people to bid on account of the current Tamil year Vikari which, according to their ideas, forboded short produce and famine. In *Vizagapatam* and *Salem*, however, there was an increase. In

the former district it was due generally to better crop of tamarind fruits. The increase in *Salem* has not been explained.

The variation under grazing has already been explained in Chapter II.

43. The following abstract compares the cost of departmental and private working and shows the net profit derived under each system.

Items.	Measure.	Quantity sold.	Amount of sale-proceeds.	Charges.			Net profit or loss.	Rate of net profit (column 8 ÷ column 3) per measure in column 2.
				A. Conservancy and works.	B. Establishment and contingencies.	Total.		
1	2	3	4	5	6	7	8	9
Departmental Working—			Rs.	Rs.	Rs.	Rs.	Rs.	Rs. A. P.
Timber	C.F.	4,183,703	1,67,411	69,269	39,842	1,09,111	+ 58,300	+0 2 3
Fuel	,,	2,814,450	1,96,273	1,18,410	52,974	1,71,384	+ 24,889	+0 0 2
Bamboos	No.	345,390	8,159	6,489	2,465	8,954	— 795	— ..
Sandalwood	C.F.	3,301	27,796	4,454	5,429	9,883	+ 17,913	+5 6 10
Minor produce	Mds.	59,927	50,008	18,246	11,490	29,736	+ 20,272	+0 5 5
Private Working —								
Timber	C.F.	1,895,545	2,06,002	12,716	36,819	49,535	+1,56,467	+0 1 4
Fuel	,,	10,23,293	2,79,804	17,272	50,010	67,282	+2,12,522	+0 0 4
Bamboos	No.	25,493,655	1,30,761	8,072	23,371	31,443	+ 99,318	+0 0 1
Grazing	..	..	4,34,167	26,800	77,599	1,04,399	+3,29,768	..
Minor produce	..	..	4,67,580	28,863	83,571	1,12,434	+3,55,146	..

The rate of profit in case of departmental working of "Timber" exceeds that in case of private working, while on the contrary "Fuel" and "Bamboos" show a loss. The increased rate of profit under "Timber" was due chiefly to the sale departmentally of more valuable timber than under private working. The loss under "Fuel" and "Bamboos" was mainly due to causes explained in comparing the average rate of sales under departmental working (paragraph 41).

Under departmental working the rates of profit under all the heads except "Bamboos" and "Minor produce" were less than those obtained during the previous year. The difference under "Bamboos" was small, but the rate under "Minor produce" was comparatively very high. The variations under this head and under "Timber" and "Fuel" were due to causes already explained in paragraph 41. The decrease under "Sandalwood" was due to the dullness of the home market. The difference under private working is small and calls for no remark.

44. The sales of confiscated produce during the year under report as compared with those of the preceding year are exhibited in the subjoined abstract:—

(FORM No. 72-B.)

ABSTRACT L.—Confiscation.

	During 1897-98.			During 1898-99.		
	Quantity.	Value.	Average.	Quantity.	Value.	Average.
Northern Circle.		RS.	RS. A. P.		RS.	RS. A. P.
Timber .. .. C. ft.	38,334	3,172	0 1 4	43,749	3,422	0 1 3
Firewood .. .. .. ,,	53,454	927	0 0 3	76,312	1,245	0 0 3
Bamboos .. .. No.	74,237	681	0 0 2	30,788	289	0 0 2
Minor produce .. Money value.	..	200	..	..	83	..
Total ..	..	4,980	..	..	5,039	..
Central Circle.						
Timber .. .. C. ft.	7,629	3,208	0 6 9	11,651	3,522	0 4 10
Firewood .. .. .. ,,	7,967	731	0 1 6	6,057	284	0 0 9
Bamboos .. .. No.	5,107	123	0 0 5	4,299	102	0 0 5
Minor produce .. Money value.	..	167	..	..	455	..
Total ..	..	4,229	..	..	4,363	..
Southern Circle.						
Timber .. .. C. ft.	6,391	1,670	0 4 2	7,151	1,960	0 4 5
Firewood .. .. .. ,,	17,805	752	0 0 8	23,824	951	0 0 8
Bamboos .. .. No.	7,506	92	0 0 2	6,758	55	0 0 2
Minor produce .. Money value.	..	94	..	..	252	..
Total ..	..	2,608	..	..	3,218	..
Presidency Total.						
Timber .. .. C. ft.	52,354	8,050	0 2 5	62,551	8,904	0 2 3
Firewood .. .. .. ,,	79,226	2,410	0 1 0	1,06,193	2,480	0 0 4
Bamboos .. .. No.	86,850	896	0 0 2	41,845	446	0 0 2
Minor produce .. Money value.	..	461	..	..	790	..
Grand Total ..	..	11,817	..	..	12,620	..

The total amount of sales shows an increase of about Rs. 800. The increase is noticeable chiefly in *Ganjám* and *Salem*. In the former district it was due to seizure of good timber which fetched better prices and in the latter district to seizure and sale of sandalwood billets.

45. The following abstract statement shows the quantity and value of produce removed by right holders and free grantees:—

	Timber.		Fuel.		Bamboos.		Minor produce.	Grazing.	Total value.
	Cubic feet.	Value.	Cubic feet.	Value.	Number.	Value.	Value.	Value.	
By Right-holders.		RS.		RS.		RS.	RS.	RS.	RS.
Northern Circle	1,311	94	257,510	4,828	20,489	128	38,450	700	44,200
Central Circle	..	..	..	..	..	..	..	356	356
Southern Circle	112	49	13	1	881	2	45	753	850
Total ..	1,423	143	257,523	4,829	21,370	130	38,495	1,809	45,406
By Free-grantees.									
Northern Circle	14,595	1,350	..	..	17,670	104	496	935	2,885
Central Circle	22,218	2,112	240	15	88,382	484	686	..	3,297
Southern Circle	17,245	5,122	2,943	58	20,918	303	217	..	5,700
Total ..	54,058	8,584	3,183	73	1,26,970	891	1,399	935	11,882

There were several cases of distress by fire in *Kistna*, *Cuddapah*, *Nellore*, *North Arcot*, *South Arcot*, *Trichinopoly*, and *North Coimbatore* and grants were freely given to rebuild the houses destroyed by fire. In *Anantapur* and *South Malabar* free grants were made for the erection of temporary plague sheds. Free grazing and removal of leaf fodder were allowed only in *South Arcot* for about one and-a-half months in the beginning of the year. In the other districts apparently there was no necessity for the grant, the rains having set in early.

CHAPTER IV.—FINANCIAL RESULTS.

46. The subjoined table compares the financial results of the year according to circles with those of 1897-98. The results show a decrease in the net revenue of Rs. 79,520.

Forest year.	Circle.	Revenue.	Expenditure.			Net results.
			A. "Conservancy and works."	B. "Establishments."	Total.	
		Rs.	Rs.	Rs.	Rs.	Rs.
1897-98	Northern	5,99,670	2,06,027	2,61,999	4,68,026	+ 1,31,644
	Central	8,88,834	2,78,206	2,78,281	5,56,487	+ 3,32,347
	Southern	6,62,610	2,84,977	2,78,999	5,63,976	+ 98,634
	Total	21,51,114	7,69,210	8,19,279	15,88,489	+ 5,62,625
1898-99	Northern	6,14,046	1,98,750	2,59,525	4,58,275	+ 1,55,771
	Central	8,73,772	2,46,912	2,81,023	5,29,935	+ 3,43,837
	Southern	5,87,436	3,20,139	2,83,800	6,03,939	— 16,503
	Total	20,75,254	7,67,801	8,24,348	15,92,149	+ 4,83,105

The gross receipts of the year, compared with those of the previous year, show a decrease of Rs. 75,860, and the variations are explained below. As compared with the previous year the revenue in the Southern Circle fell short during the year by Rs. 75,174 while the expenditure increased by Rs. 39,963. The net result in the Circle shows a deficit due to causes explained below under the several budget heads.

Departmental working.

Timber,—Rs. 62,258. Due mainly (1) to the retention of large stock in *South Malabar* and *South Coimbatore* for the purpose of seasoning the wood required for the supply of railway sleepers and for conversion in the Anamalai saw-mill; (2) to the failure to realize within the year the full value of teak saplings sold in *South Malabar*; (3) to the absence of demand for teak poles in the *Nilgiris* owing to the prevalence of plague; and (4) to the adjustment during the year in North Malabar of only Rs. 3,608 out of Rs. 13,783 worth of timber sold to the Ordnance Department.

Fuel,+Rs. 22,854. Due mainly to the larger supply of engine fuel to the Madras Railway in the *Salem District*.

Bamboos,—Rs. 1,064. Due to the fact that fewer bamboo rafts were floated to the Kallai depot in *South Malabar* where they are usually broken and sold.

Sandalwood,—Rs. 5,903. Due partly to the sale in the previous year of the two years' stock in the *Nilgiris* and partly to the restriction of fellings during the year in *Salem*.

Minor produce,+Rs. 17,717. Due mainly to sale of the previous year's collection of soapnuts and gallnuts in *Nellore* and *North Coimbatore*.

Removals by purchasers.

Timber,—Rs. 34,567. Due to realization of revenue during the previous year in *Salem* from sale of trees on darkhast lands and in reserved forests on the Shevaroys leased out to planters for coffee cultivation and to absence of revenue from these sources during the year under review and to fall in the number of darkhast applications and to non-adjustment during the year of the value of timber and fuel supplied to the Superintendent, Reserve Remount Depot. The want of demand for first-class timber and palmyra trees in *Chingleput* and short removals of timber by contractors in *North* and *South Malabar* owing to prevalence of plague in Mysore, also contributed towards the decrease.

Fuel,+Rs. 12,840. Due mainly to improved sales of standing coupes in *Madura* and to the substitution in *Tinnevelly* of the contract system for departmental agencies.

Bamboos,—Rs. 2,956. The decrease occurs in *Salem* due to restrictions of fellings and to prevalence of plague at Bangalore.

Grazing,+Rs. 70,138. (*Vide* explanation under grazing).

Other produce,—Rs. 49,096. The decrease was due to withholding of the sale of the tangedu bark lease on account of low bids and to low prices fetched for minor produce both in reserved and unreserved lands in the *Bellary district*; to failure in *Anantapur* to recover in full the balances due on account of the tangedu bark leases; and to fall in the sales of amroy in *Cuddapah*.

Confiscated wood and miscellaneous revenue,—Rs. 43,565. The decrease was due to the sale of a smaller number of captured elephants during 1898–99 than in the previous year in the *Southern Circle* and to the delay in the collection of rent from the lessees of forest lands in *North Malabar* and *South Coimbatore* and also to restrictions placed on sale of lands on the Anamalais during the year. The crediting of compensation fees in *Chingleput* and *South Arcot* to the appropriate budget heads instead of to head V as in the previous year, also contributed towards the decrease.

The total expenditure under "A. Conservancy and works" as compared with that of the previous year shows a fall of only Rs. 1,409. If the variations under each head are taken into account, noticeable increase occurs under I and decrease under VI, VIII and IX. The increased expenditure under I was due (1) to withdrawal of restrictions imposed in the previous year on the collection of red wood and small timber in *Cuddapah*; (2) the payment during the year of the cartage on timber sold to the Ordnance Department in *North Malabar*; and (3) to the large supply of engine fuel to the Madras Railway from *Salem*. The short expenditure under VI was due mainly to adjustment of the cost of tents supplied in 1897–98 and 1898–99 to the former year's account and to purchase of less stores during the year as compared with those purchased in the previous year. The decrease under VIII occurred mainly in Northern and Central Circles and was due to the restriction of operations by the Survey of India Party and that under IX was due to the payment during the previous year of damages and law charges in civil original suit No. 2 of 1895 on the file of the District Court of North Arcot. The cost of "B. Establishment" increased slightly by Rs. 5,069 due mainly to the employment of larger staff of subordinate establishment under the reorganization scheme. The following districts contributed chiefly to the net surplus: *Salem* over 25 per cent., *Cuddapah* and *North Arcot* 13, *Nellore* 12, *North Coimbatore* 11, *Kurnool* 10 and *South Arcot* 9.

CHAPTER V.—IMPORTANT ADMINISTRATIVE CHANGES.

47. *Realization of Revenue from the usufruct of Toddy-yielding trees in the Reserved Forests and Government Waste and Poramboke Lands.*—As reported last year, the revenue collected under this head in *Ganjám* was insignificant. In *Gódávari* it is expected to realize more in future by the change in the order on the subject, viz., that the revenue from trees on village porambokes (other than those held on patta), should be credited to "Forests." In *Kurnool* it is reported that the fixed fee system is working well, while in *Anantapur* it has resulted in a loss to the department. In *Bellary* and *Anantapur* the revenue fell short of that of the previous year. There was no demand for tapping in reserved forests and lands in the former district. In *North Arcot* the system of selling by public auction the lease of the usufruct of the toddy-yielding trees was continued during the year, and fixed fees were, as reported last year, levied on only a few trees in the reserved forests. The introduction of the fixed fee system was postponed to 1899–1900. In *Madura* there was no collection under this head, as the number of trees is small, and no purchasers came forward. In *Tinnevelly* the revenue derived from this source amounted to Rs. 1,682. The reports from other districts contain little or no information on the subject.

48. *Measures adopted to encourage the growth of manure leaf yielding trees and shrubs.*—In the *Northern Circle* nothing was done to encourage the growth of manure leaf yielding trees by artificial means, as there was no demand for leaf-manure in some districts, while in others there was sufficient spontaneous growth of the necessary trees and shrubs outside the areas under conservation. In the *Central Circle* no steps were undertaken in this direction in any of the districts except *Chingleput* and *North Arcot*, as demands were satisfactorily met with from existing produce. In *Chingleput* some species were sown in coupes, and the result of the undertaking was, on the whole, unsatisfactory. In *North Arcot* the supply of leaves for manure is insufficient in some localities, but steps are being taken to sow some of the species in the reserves. In the *Southern Circle* it is reported that in *South Canara* the Range officers have been directed to encourage the growth of suitable shrubs; in *South Coimbatore* the demand for the leaves grown in the forest is scarce; in *Madura* the subject is receiving the attention of the officers, and provision is being made in the working plans now under preparation. In the other districts no action is considered necessary at present.

49. *Working of the Department—Improvement of the Forest growth and the wants of the people.*—In *Vizagapatam* permit-issuing stations are located at convenient centres, and the people experience no difficulty whatever in obtaining forest permits. In *Gódávari* simple working plans are being prepared for working the plain village forests to provide small timber and fuel to the public at cheap rates, and it is proposed to open a depot in Peddapur to supply the surrounding population with small timber for agricultural and domestic purposes. In *Kurnool* the selling rates of timber in the depots have been reduced during the year restricting the price to seigniorage rates *plus* cost of extraction and carriage. The establishment of depots at various centres is being arranged for. In *Anantapur* the requirements of the people have been kept in view in dealing with the management of the reserved forests. In *Cuddapah* the demands were satisfactorily met with, while in *Nellore* the supply was more than enough for local requirements. In *Chingleput* and *North Arcot* coupes were opened to meet the requirements of the people in the matter of small timber and fuel. In the latter district permits on payment of seigniorage were also issued wherever necessary. In *South Arcot* facilities were afforded to meet the wants of the people by opening coupes; but they did not make much use of them, as they were able to procure firewood, &c., for domestic purposes from patta lands. In *Salem* the wants of the people were generally met with, and efforts are now being made to supply agricultural implements from every fuel depot. The departmental supply of charcoal from the Salem depot was commenced during the year, and by this means the people were able to obtain charcoal at a lower rate than that at which it could be obtained in the open market. In *Tanjore* and *Trichinopoly* no hardships were experienced by the ryots in the matter of obtaining forest produce. In *North Coimbatore* the introduction of a new bamboo depot at Attani has proved a success and the demand has greatly improved. In *Madura* the permit system was re-introduced in some places as its abolition caused inconvenience to the people. The required information on the improvement of standing growth and efforts to aid it are given in paragraphs 28 and 29 *supra*.

50. *Rules under the Forest Act.*—The timber transit rules in *Ganjam* are reported to require some modification. In *Vizagapatam* and *Kurnool* they worked satisfactorily, but in the latter the marking of timber by a pass hammer which was done away with during the year gave room to smuggling of timber. Rules under sections 35 and 36 of the Forest Act were introduced during the year in the districts of *Godavari* and *Tinnevelly*. A portion of these rules relating to the registration of property marks and special rules applicable to all rivers, &c., were sanctioned during the year for *South Malabar*. In *South Coimbatore* timber transit rules were worked without any undue hardships to the people. A notification for constituting certain forests of the *Saptur Estate* as reserved lands has since been approved by the Court of Wards; but the District Forest-officer considers the sanctioned forest rules unsuitable and unlikely to improve the forests, as they are subject to the exercise of existing rights and privileges. In *Cuddapah* the timber transit rules have proved of great value in minimising the illicit removal of timber.

51. *Working of the rules unaer section* 26 *of the Forest Act.*—This subject is not noted by the Collectors of *Kistna*, *South Canara* and *South Coimbatore*. The concession allowed under rule 7 of the rules was availed of by the people generally in almost

all the districts. In *Vizagapatam* the exclusion of certain species from class III of the classified list of trees mentioned in the last year's report was widely made known and accepted freely by the public. In *North Coimbatore*, it is reported, the concessions are abused and in many parts unreserved forests are being gradually stripped of growth, much damage being done to the more valuable trees by graziers. It is however presumed that the Collector is taking steps to put a stop to this abuse. Separate lists of selected trees for each range referred to in the previous year's report have been received from most of the Collectors and approved of by the Board with certain modifications.

52. *Coffee cultivation in reserved forests.*—In *Salem* out of the total demand of Rs. 26,552 on account of the value of the growth on the lands assigned for cultivation on the Shevaroys, Rs. 3,474 were collected during the year under report, and Rs. 18,875 in previous years. The balance will be collected when the instalments fall due. A lease-deed for 46 acres of land on the Yelagiris was executed during the year. The proposal to throw open a portion of the *Minchiguli Valley* in *North Coimbatore* has been dropped for the present by Government. In *South Coimbatore* the terms of lease-deeds for leases on the Anamalais were finally settled and almost all the lessees have paid up the arrears of rent and the agreements are being executed. Of the 12 pending applications, 2 were rejected, 6 withdrawn, 3 advertised for sale in public auction and 1 assigned at the upset price of Rs. 5 per acre. The demand for land is slack as the price of coffee has considerably fallen. Government has ordered that no fresh applications for lands on the Anamalais should be admitted pending completion of bridle-path to Sirukundru.

53. *Tours of Forest Member.*—The Hon'ble Mr. J. Sturrock, I.C.S., was the Forest Member throughout the year. He proceeded to *Coimbatore* in September and October 1898, visited the wire ropeway and sawing machine at Mount Stuart and conferred with the Collector and the District Forest-officer on various forest matters. He also visited *Kurnool* in December 1898 and the *Nilgiris* in June 1899.

54. *Conservators' inspections.*—The usual statement showing the names of the Conservators that held charge of the three circles during the year, the time spent by them in camp and the names of the districts inspected by them is appended below :—

Circle.	Names of Conservators.	Number of days in charge.	Number of days spent in camp.	Districts inspected.	District Forest-offices inspected.
Northern	Mr. E. D. M. Hooper	Whole year.	212	All the districts ..	All except Kurnool.
Central	„ J.W. Cherry	Do.	238	All the districts except Tanjore.	All except North Arcot.
Southern	„ C. E. Brasier	3	277	All the districts.	All the district Forest-offices.
	„ H. A. Gass	362			

Mr. Hooper was deputed to the annual meeting of the Forest School at Dehra Dun to serve as a Member in the Board of Control.

55. *Touring of District Forest-officers.*—More than half the year was spent in camp by all the District Forest-officers except Bellary, Nellore, Tanjore *cum* Trichinopoly and the Nilgiris. The short touring of the District Forest-officer, Nilgiris, was due to repeated illness contracted during work in the Mudumalai forest and on the Mysore boundary. Explanations for short touring by the other officers have not been furnished.

56. *Inspection of Range offices by District Forest-officers.*—The ranges of all the districts except *Bellary*, *Nellore*, *North Arcot*, *South Arcot*, *South Canara*, *South Malabar*, the *Nilgiris*, *North* and *South Coimbatore* were inspected twice during the year. In the districts excepted some of the Range offices were inspected only once.

57. *Audit of the accounts of the District Forest offices.*—The accounts of all District Forest offices except *North Arcot*, *Tanjore* and *South Coimbatore* were, as usual, audited.

by the Local Fund inspecting staff of the Accountant-General's office, and the results were on the whole satisfactory. The Collector of the *Nilgiris* has not furnished any information on the point.

58. *Forest School.*—One Deputy Ranger from the Northern Circle and one Forester from the Southern Circle were deputed during the year to the Forest school for training. Three Deputy Rangers returned from the school with Rangers certificates, *i.e.*, one to each circle.

59. *Conference of District Forest and Divisional Officers during Jamabandi.*—The instructions issued last year by the Board on the subject were observed in all the districts except *Vizagapatam*, *Kurnool*, *Nellore*, *Trichinopoly* and *North Malabar*; the chief complaints brought to notice were—

(1) absence of timber trees for agricultural implements;
(2) absence of browsing grounds for goats; and
(3) insufficiency of manure-leaf-yielding areas.

These are receiving the consideration of the respective officers. In *Vizagapatam* the District Forest-officer was not able to meet the Divisional officers as he was appointed a working-plan officer at the time of jamabandi. In *Nellore* as Mr. Foulkes was busily engaged in the preparation of several working plans he had no opportunity to meet the Divisional-officers at the time of jamabandi. In *Trichinopoly* the non-compliance of orders is reported to be due to frequent changes of District Forest-officers and to other important matters concerning the district which engaged the attention of the District Forest-officer during jamabandi. This explanation and that offered by the Collector of Kurnool are altogether unsatisfactory. North Malabar has not given any explanation.

60. *Conduct and work of the establishment.*—The conduct and work of the subordinate executive staff were on the whole good but still leave much room for improvement. In the *Northern Circle*, the prosecution of a Forester in Gódávari for bribery resulted in his acquittal. One Deputy Ranger in *Kistna* was suspended for misappropriation of grazing revenue and his prosecution was recently sanctioned. One supervisor was dismissed for neglect of duty and two were suspended for the same reason. A license-issuing gumastah, against whom a complaint was preferred, absconded before the issue of warrant and his whereabouts are not yet known. In *Bellary* two foresters were suspended—one for disobedience of orders and neglect of duty and the other for fraudulent conduct. In *Cuddapah* in the *Central Circle* one forester was suspended for disobedience of orders and the services of another were dispensed with. One Ranger and two foresters were suspended in *North Arcot*. The former has since been reduced to the bottom of his grade for irregularities in his office work. In *South Arcot* one forester was prosecuted for bribery and extortion, and was convicted on one of the charges. The conviction was upheld on appeal. One Deputy Ranger in *Salem* was suspended on charges of misappropriation and his prosecution has since been sanctioned. A forester was convicted of extortion and sentenced to six months' imprisonment. In the *Southern Circle*, a Ranger and a forester were suspended in *North Malabar*. In *South Coimbatore* the services of a forester were dispensed with for submitting false diaries and insubordination to the Range-officer and another was suspended. In *Tinnevelly* the services of a forester were dispensed with and two more were suspended for laziness and gross neglect of duty. One Ranger was reduced four places in his grade for neglect of duty.

The conduct of the protective staff was, as usual, far from satisfactory. Several guards and watchers were convicted of extortion and some of criminal misappropriation. Some had also to be removed and suspended for misconduct and gross neglect of duty. A forest guard in *Cuddapah* was found dead bearing marks which point to his having been murdered; the accused persons were, however, discharged for want of evidence.

61. *Health of the establishment.* In the *Northern Circle*, *Vizagapatam*, *Gódávari* and *Kurnool* continued to be as bad as ever. In *Kurnool* a forester and some other subordinates died of malarial fever. In *Ganjám* the season was better than during the

previous year. In the *Central Circle* the subordinates of the *Cuddapah taluk*, as usual, suffered a good deal from fever. The health of the establishment was bad in *Nellore*, *North Arcot* and *Salem*. Mr. Batchelor, the Acting District Forest-officer, *North Arcot*, died of cholera. In the *Southern Circle* the health was, on the whole, better in *South Canara*, *Madura* and *Tinnevelly*; fair in the *Nilgiris* except in Mudumalai; indifferent *North and South Coimbatore*, and bad in *North* and *South Malabar*.

62. *Service Books.*—These are reported to have been maintained and verified in all the districts.

63. *Inventory of valuable stock.*—Stock registers are reported to have been maintained and verified in all districts except the *Nilgiris*, the Collector of which district has not furnished the required information.

64. *Elephants.*—The elephant attached to the *Vizagapatam district* is reported to be weak and consequently of no use to the department. Twelve elephants were captured during the year—five in *North Malabar*, three in *South Malabar* and four in *South Coimbatore*. One calf was born in *North Malabar*. Four elephants died and four were sold; one was shot, one ran away and two were transferred to the Public Works Department. The number of elephants borne on the strength of the department is 53 as per Form No. 63 against 52 in the previous year.

65. *Rain-gauges.*—Rain-gauge readings are reported to have been properly recorded in all the districts, except *Ganjám* and *Anantapur* in the *Northern Circle*, *Nellore*, *Chingleput*, *Trichinopoly* and *Tanjore* in the *Central Circle* and *South Canara* and the *Nilgiris* in the *Southern Circle*. One of the rain gauges in *Anantapur* has been damaged.

66. *Iron industry in the Salem District.*—The Government of India in their despatch to the Secretary of State for India, dated Simla, the 3rd November 1898, No. 29, Public Works, considered that the unpromising results of the analyses of the samples of iron ore made at Middlesborough were due more or less to the fact that the ore on which experiments had been made could not be regarded as a fair sample of the ore which would in practice be selected for reduction by manufacturers in any iron works that might hereafter be opened, the consignment having consisted of average specimens of the whole rock as it would be quarried in the mass. The Government of India were further of opinion that the determination of the available quantity of such ore might better be left to the experts who will, no doubt, be employed by the syndicates who have applied for licenses to prospect the tract for minerals and decided that it would be unadvisable to continue experiments on sample ores selected by Government officers for the reason that whatever might be the result of such experiments it would be difficult to satisfy the promoters of a private enterprise that the selection had been conducted in such a way as to fairly indicate the commercial value of the Kanjamalai iron fields. With regard, however, to the experiments made to ascertain the coking qualities of the Bengal coal referred to in the report for the last year, the Government of India considered that the results obtained, though inconclusive, were distinctly hopeful and strongly recommended that a further series of experiments should be made under the supervision of an officer interested in a successful result, on samples of Bengal coal specially selected with a view to these experiments. The result of these further experiments has not yet been announced. Two firms have applied for and obtained the sanction of Government for prospecting the Kanjamalai reserve for iron ore for a period of two and-a-half years. One of the applicants having sent out a mining expert to report on the quality of the deposit, advantage was taken of his presence in the country to collect 400 tons of ore in view to its being sent to Sweden for experimental treatment by magnetic concentrators, but the Government of India having decided that further investigation should be left to private enterprise no steps are being taken by Government for the despatch of the ore to Europe, and sanction has been accorded for its delivery to Messrs. Turner and McFadyen for the continuance of the investigation at their expense.

67. *Mica.*—Mining for this mineral is carried on in *Nellore*. New rules were framed on the subject and introduced in 1897–98, and all the mines have been brought under these rules during the year. Twenty-six mines are now actually working in the

district. The royalty collected during the year was Rs. 22,617 and it is expected to derive more in future. The industry is well established and every endeavour has been made to meet the wishes of the lessees and they are well satisfied with the working of the rules. In *Gódávari* the right to prospect for graphite for another year has been granted to Messrs. Hall, Wilson & Co. in Bhadrachalam sub-division.

68. *Work and Services of Superior Officers.*—The opinions of the Conservators are as follow :—

Northern Circle.—Mr. Hooper, the Conservator; says—

"It would appear that all District Forest-officers have worked to the satisfaction of the Conservator."

Central Circle.—Mr. Cherry, the Conservator, says—

"I have pleasure in stating that all the officers under me have worked very well and under trying circumstances."

Southern Circle.—The Acting Conservator Mr. Gass writes—

"It is a pleasure to report satisfaction with the work done by officers in charge of divisions. All have worked hard and well and to select any one officer for special mention would be unfair to the others."

Mr. W. C. Hayne, Deputy Conservator of Forests, second grade, retired during the year with effect from 12th May 1899.

APPENDICES.

ANNUAL FORM No. 44.

Forest Department, Madras Presidency.

AREA of reserved forests and reserved lands, 1898–99.

District.	Area of reserved forests.						Area of reserved lands.						Total area of reserved forests and reserved lands on 30th June 1899 in square miles.
	Area on 1st July 1898.		Added during the year.	Excluded during the year.	Area on 30th June 1899.		Area on 1st July 1898.		Added during the year.	Excluded or transferred to other heads.	Area on 30th June 1899.		
	Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.	Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.	
Northern Circle.													
Ganjám	156,486	245	116,685	7,552	265,619	415	203,350	318	13,515	137,793	79,072	123	538
Vizagapatam	87,700	137	3,149	..	90,849	142	176,446	276	..	40,764	135,682	212	354
Gódávari	540,474	844	13,885	..	554,359	866	80,406	126	36	23,100	57,342	90	956
Kistna	451,560	706	27,144	8	478,696	748	291,960	456	1,611	39,969	253,602	396	1,144
Kurnool	1,255,902	1,962	26,648	176	1,282,374	2,004	453,155	708	154,643	34,616	573,282	896	2,900
Bellary	293,228	458	11,688	496	304,420	476	100,466	157	17,769	32,055	86,180	135	611
Anantapur	287,651	450	32,497	..	320,148	500	40,170	62	..	35,310	4,860	7	507
Total ..	3,073,001	4,802	231,696	8,232	3,296,465	5,151	1,345,953	2,103	187,574	343,507	1,190,020	1,859	7,010
Central Circle.													
Cuddapah	1,056,550	1,651	130,657	..	1,187,207	1,855	479,333	749	41,779	138,347	382,765	598	2,453
Nellore	354,516	554	62,744	..	417,260	652	80,967	126	25,785	71,051	35,701	6	708
Chingleput	128,731	201	5,516	..	134,247	210	8,886	14	..	5,857	3,029	5	215
North Arcot	670,344	1,047	136,842	58,780	748,406	1,169	52,320	82	6,214	15,715	42,819	67	1,236
South Arcot	432,563	676	5,895	..	438,458	685	22,253	35	..	6,743	15,510	24	709
Salem	784,791	1,226	7,155	526	791,420	1,237	108,474	170	19,132	8,277	119,329	186	1,423
Trichinopoly	122,851	192	15,236	..	138,087	216	55,263	86	31,423	18,393	68,293	107	323
Tanjore	11,519	18	..	..	11,519	18	..	..	..	..	..	..	18
Total ..	3,561,865	5,565	364,045	59,306	3,866,604	6,042	807,496	1,262	124,333	264,383	667,446	1,043	7,085
Southern Circle.													
South Canara	106,371	166	75,619	26	181,964	284	612,294	957	..	93,388	518,906	811	1,095
Malabar, North	100,851	157	1,147	155	101,843	159	74,978	117	..	2,722	72,256	113	272
Do. South	25,416	40	96,000	..	121,416	190	184,731	288	..	96,000	88,731	138	328
The Nilgiris	228,962	358	715	302	229,375	358	80,092	125	6,711	1,677	85,126	133	491
Coimbatore, North	674,382	1,054	4,692	176	678,898	1,061	361,357	565	..	4,700	356,657	557	1,618
Do. South	418,292	654	97	..	418,389	654	1,982	3	..	97	1,885	3	657
Madura	363,081	567	3,329	..	366,410	572	29,823	46	..	6,077	23,746	37	609
Tinnevlly	263,974	412	2,835	50	266,759	417	7,505	12	3,923	3,938	7,490	12	429
Total ..	2,181,320	3,408	184,434	709	2,365,054	3,695	1,352,762	2,113	10,634	208,599	1,154,797	1,804	5,499
Grand Total ..	8,816,195	13,775	780,175	68,247	9,528,123	14,888	3,506,211	5,478	322,541	816,489	3,012,263	4,706	19,594

ANNUAL FORM No. 44.

District.	Name of forest or land.	Area on 1st July 1898. Acres.	Area on 1st July 1898. Equivalent in square miles.	Added during the year. Acres.	Excluded during the year. Acres.	Area on 30th June 1899. Acres.	Area on 30th June 1899. Equivalent in square miles.	Number and date of notification of addition or exclusion.
	Reserved forests.							
Ganjám ..	Rayapada	..	..	7,035	..	7,035	..	No. 350, dated 25th July 1898.
	Paichalia	..	..	7,675	..	7,675	..	No. 409, dated 31st August 1898.
	Darpangia	..	..	24,312	..	24,312	..	No. 422, dated 14th September 1898.
	Dowgam	..	..	2,279	..	2,279	..	No. 424, dated 9th September 1898.
	Gulleri	..	..	27,614	..	27,614	..	No. 36, dated 24th January 1899.
	Gogodo	..	..	10,327	..	10,327	..	No. 191, dated 22nd April 1899.
	Ambozora	..	..	33,274	..	33,274	..	No. 226, dated 19th May 1899.
	Area notified in previous years.	156,486	245	* 4,169	* 7,552	153,103	..	....
	Total ..	156,486	245	116,685	7,552	265,619	415	....
	Reserved lands (not transferred to reserved forests during the year).							
	Area notified in previous years.	104,349	..	..	† 121 * 25,156	79,072	123	....
	Reserved forests.							
Vizagapatam	Chinnagora Extension 1 ..	..	..	22	..	22	..	No. 583, dated 16th December 1898.
	Do. do. 2 A and B.	..	..	13	..	13	..	
	Do. do. 3 ..	..	..	13	..	13	..	
	Do. do. 4 ..	..	..	184	..	184	..	
	Do. do. 5 ..	..	..	104	..	104	..	
	Antikonda do. 1 ..	..	..	64	..	64	..	No. 243, dated 20th May 1898.
	Do. do. 2 ..	..	..	76	..	76	..	
	Kadagandi do. 1 ..	..	..	237	..	237	..	No. 305, dated 23rd June 1898.
	Pedimikonda do. 1 ..	..	..	66	..	66	..	No. 557, dated 3rd December 1898.
	Do. do. 2 ..	..	..	18	..	18	..	No. 252, dated 20th May 1898.
	Arlova do. 2 ..	..	..	70	..	70	..	
	Do. do. 4 ..	..	..	64	..	64	..	No. 246, dated 20th May 1898.
	Do. do. 5 ..	..	..	51	..	51	..	
	Sinivaram do. ..	..	..	124	..	124	..	No. 253, dated 18th May 1898.
	Karaka do. 2-A ..	..	..	2,043	..	2,043	..	No. 50, dated 26th January 1899.
	Do. do. 2-B ..							
	Area notified in previous years.	87,700	137	..	..	87,700	..	....
	Total ..	87,700	137	3,149	..	90,849	142	....
	Reserved lands (not transferred to reserved forests during the year).							
	Bointi	..	..	..	32,960	..	..	No. 505, dated 2nd November 1898.
	Area notified in previous years.	173,297	..	..	† 2,975 ‡ 1,680	..	..	....
	Total ..	173,297	..	..	37,615	135,682	212	....
	Reserved forests.							
Gódávari ..	Marlagudem	..	..	2,100	..	2,100	..	No. 304, dated 28th June 1898.
	Papikonda	..	..	11,785	..	11,785	..	No. 170, dated 11th April 1899.
	Area notified in previous years.	540,474	844	..	..	540,474	..	....
	Total ..	540,474	844	13,885	..	554,359	866	....
	Reserved lands (not transferred to reserved forests during the year).							
	Doramamidi extension ..	..	..	36	..	36	..	No. 450, dated 29th September 1898.
	Area notified in previous years.	66,521	..	..	† 9,215	57,306	..	....
	Total ..	66,521	..	36	9,215	57,342	90	

* Rectification. † At settlement. ‡ Unreserved by Collector.

District.	Name of forest or land.	Area on 1st July 1898. Acres.	Area on 1st July 1898. Equivalent in square miles.	Added during the year. Acres.	Excluded during the year. Acres.	Area on 30th June 1899. Acres.	Area on 30th June 1899. Equivalent in square miles.	Number and date of notification of addition or exclusion.
	Reserved forests.							
Kistna ..	Venkatayapalem extension 3	..	..	1,420	..	1,420	..	....
	Do. do. 6.	..	..	1,120	..	1,120	..	....
	Bollapalli extension 8 ..	..	..	1,500	..	1,500	..	....
	Bapatla extension 3 ..	..	..	607	..	607	..	....
	Guttikonda extension 9 ..	..	..	890	..	890	..	No 351, dated 25th July 1898.
	Nizampatam extension 1 ..	..	..	1,500	..	1,500	..	No. 410, dated 1st September 1898.
	Tummurcodu extension 4 ..	..	..	405	..	405	..	No. 425, dated 9th September 1898.
	Do. do. 5 ..	..	..	432	..	432	..	
	Gadimetla	..	..	1,157	..	1,157	..	No. 432, dated 17th September 1898.
	Rekullagadda	..	..	3,230	..	3,230	..	No. 433, dated 17th September 1898.
	Pullaripalem	..	..	699	..	699	..	No. 518, dated 14th November 1898.
	Perlavallapalem	..	..	889	..	889	..	No. 569, dated 12th December 1898.
	Bollapalli extension 9 ..	..	..	720	..	720	..	No. 571, dated 6th December 1898.
	Gangalakunta addition Nos. I, II and III.	..	..	44	..	44	..	No. 573, dated 6th December 1898.
	Muthayapalem extension ..	..	..	720	..	720	..	No. 16, dated 5th January 1899.
	Tummurcodu II	..	..	2,720	..	2,720	..	No. 37, dated 19th January 1899.
	Bollapalli extension 7 ..	..	..	2,565	..	2,565	..	No. , dated 6th April 1899.
	Koppukonda extension 1 ..	..	..	3,336	..	3,336	..	No. 190, dated 22nd April 1899.
	Mekapad	..	..	1,428	..	1,428	..	No. 225, dated 20th May 1899.
	Kuragallu extension ..	..	..	16	..	16	..	No. 232, dated 19th May 1899.
	Yellamanda block No. II ..	..	..	1,045	..	1,045	..	No. 283, dated 26th May 1899.
	Area notified in previous years.	451,560	706	* 701	* 8	452,253	..	....
	Total ..	451,560	706	27,144	8	478,696	748	....
	Reserved lands (not transferred to reserved forests during the year).							
	Area notified in previous years.	265,517	..	1,611	* 34 † 5,658 ‡ 7,834	253,602	396	....
	Reserved forests.							
Kurnool ..	Gadidamadugu	2,891	..	..	176	2,715	..	No. 10, dated 5th January 1899.
	Maduva	..	..	855	..	855	..	No. 340, dated 11th July 1898.
	Sirvel addition No. III of Bachipalli.	..	..	11,546	..	11,546	..	No. 341, dated 11th July 1898.
	Veldurti	..	..	976	..	976	..	No. 446, dated 28th September 1898.
	Dudyala	..	..	4,026	..	4,026	..	No. 491, dated 26th October 1898.
	Betamcherla	..	..	9,245	..	9,245	..	No. 520, dated 11th November 1898.
	Area notified in previous years.	1,253,011	1,958	..	..	1,253,011	..	....
	Total ..	1,255,902	1,962	26,648	176	1,282,374	2,004	
	Reserved lands (not transferred to reserved forests during the year).							
	Mukkella date tope	..	..	141	..	141	..	No. 369, dated 10th August 1898.
	Eastern Nallamalai block No. V.	..	..	8,939	..	8,939	..	No. 496, dated 26th October 1898.
	Markapur addition	..	..	12	..	12	..	No. 522, dated 14th November 1898.
	Eastern Nallamalai block No. IV	..	..	28,900	..	28,900	..	No. 101, dated 6th March 1899.
	Area notified in previous years.	426,507	666	§ 116,651	‡ 7,868	535,290	..	....
	Total ..	426,507	666	154,643	7,868	573,282	896	

* Rectification. † Unreserved by the Collector. ‡ At settlement.
§ Notified by the Collector under rule 5 of the rules under section 26.

District.	Name of forest or land.	Area on 1st July 1898.		Added during the year.	Excluded during the year.	Area on 30th June 1899.		Number and date of notification of addition or exclusion.
		Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.	
	Reserved forests.							
Bellary ..	Kalluru west	..	..	1,341	..	1,341	..	No. 405, dated 29th August 1898.
	Molagavalli	..	..	1,423	..	1,423	..	No. 385, dated 18th August 1898.
	Kodalu	..	..	1,101	..	1,101	..	No. 586, dated 16th December 1898.
	Ubbalagandi extension No. 141.	..	..	1,256	..	1,256	..	No. 12, dated 5th January 1899.
	Bellahunshi	..	..	1,305	..	1,305	..	No. 95, dated 27th February 1899.
	Hampasagaram	..	..	1,005	..	1,005	..	No. 197, dated 22nd April 1899.
	Koyilaragatti extension ..	..	..	377	..	377	..	No. 62, dated 10th February 1899.
	Area notified in previous years.	293,228	458	* 3,880	* 496	296,612	..	....
	Total ..	293,228	458	11,688	496	304,420	476	
	Reserved lands (not transferred to reserved forests during the year).							
	Tornagallu extension ..	..	..	167	..	167	..	No. 540, dated 19th November 1898.
	Hulikunta	..	..	4,124	..	4,124	..	No. 580, dated 17th December 1898.
	Gundlabommanahalli ..	..	..	1,319	..	1,319	..	No. 17, dated 5th January 1899.
	Somalapuram south-east extension.	..	..	276	..	276	..	No. 582, dated 16th December 1898.
	Appaiyinahalli	..	..	2,378	..	2,378	..	No. 581, dated 17th December 1898.
	Shidagallu A	..	..	3,220	..	3,220	..	No. 585, dated 17th December 1898.
	Do. B	..	..	896	..	896	..	No. 17, dated 5th January 1899.
	Do. C	..	..	5,200	..	5,200	..	Do.
	Area notified in previous years.	92,658	145	* 189	† 1,958 ‡ 22,289	68,600	..	....
	Total ..	92,658	145	17,769	24,247	86,180	135	
	Reserved forests.							
Anantapur ..	Hottabetta, north	..	..	7,339	..	7,339	..	No. 313, dated 1st July 1898.
	Durgam extension	..	..	855	..	855	..	No. 262, dated 3rd June 1898.
	Ratnagiri	..	..	1,127	..	1,127	..	No. 447, dated 28th September 1898.
	Narasampalli	..	..	1,933	..	1,933	..	No. 488, dated 27th October 1898.
	Yemmihatti	..	..	1,799	..	1,799	..	No. 495, dated 27th October 1898.
	Kondapalli	..	..	4,500	..	4,500	..	No. 568, dated 6th December 1898.
	Pillahalli	..	..	1,365	..	1,365	..	No. 572, dated 6th December 1898.
	Khairevu	..	..	5,424	..	5,424	..	No. 166, dated 7th April 1899.
	Shetturu	..	..	4,380	..	4,380	..	No. 167, dated 7th April 1899.
	Ayidukallu	..	..	3,775	..	3,775	..	No. 198, dated 22nd April 1899.
	Area notified in previous years.	287,651	450	..	..	287,651	..	....
	Total ..	287,651	450	32,497	..	320,148	500	
	Reserved lands (not transferred to reserved forests during the year).							
	Area notified in previous years.	7,673	12	..	† 2,813	4,860	7	....

* By rectification. † At settlement. ‡ Unreserved by the Collector.

District.	Name of forest or land.	Area on 1st July 1898.		Added during the year.	Excluded during the year.	Area on 30th June 1899.		Number and date of notification of addition or exclusion.
		Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.	
	Reserved forests.							
Cuddapah ..	Palacondas	..	..	87,958	..	87,958	..	No. 269, dated 27th May 1898.
	Vongimalla	..	..	11,401	..	11,401	..	Do.
	Seshachellam extension B ..	..	..	1,793	..	1,793	..	No. 435, dated 21st September 1898.
	Kanakalakonda extension ..	..	..	4,496	..	4,496	..	No. 29, dated 12th January 1899.
	Patur extension	..	..	4,896	..	4,896	..	No. 96, dated 27th February 1899.
	Dhodiyam extension A ..	..	..	2,147	..	2,147	..	No. 114, dated 11th March 1899.
	Do. do. B ..	..	..	1,655	..	1,655	..	No. 65, dated 10th February 1899.
	Gandikotta do. B ..	..	..	762	..	762	..	No. 63, dated 10th February 1899.
	Do. do. C ..	..	..	254	..	254	..	No. 94, dated 27th February 1899.
	Neridikonda	..	..	6,145	..	6,145	..	No. 92, dated 27th February 1899.
	Seshachalam extension C ..	..	..	5,328	..	5,328	..	No. 436, dated 21st September 1898.
	Musalikunta	..	..	2,161	..	2,161	..	No. 462, dated 4th October 1898.
	Yellutla extension B ..	...	..	1,661	..	1,661	..	No. 587, dated 16th December 1898.
	Area notified previous years.	1,056,550	1,651	..	..	1,056,550	..	....
	Total ..	1,056,550	1,651	130,657	..	1,187,207	1,855	
	Reserved lands (not transferred to reserved forests during the year).							
	Buduguntapalli extension ..	..	..	3,136	..	3,136	..	No. 158, dated 29th March 1899.
	Gottimanikona do. ..	108	..	5,494	..	5,602	..	No. 169, dated 11th April 1899.
	Kodur Hill do. ..	2,160	..	5,763	..	7,923	..	No. 27, dated 11th January 1899.
	Kanamalapalli do. ..	..	..	3,738	..	3,738	..	No. 403, dated 29th August 1898.
	Turupukonda do. ..	21,702	..	756	..	22,458	..	No. 285, dated 26th May 1899.
	Kondapuram plantation ..	..	..	89	..	89	..	No. 584, dated 6th December 1898.
	Gorivikanama extension ..	..	..	1,317	..	1,317	..	No. 105, dated 3rd March 1899.
	Gadikota do. ..	3,538	..	9,099	..	12,637	..	No. 208, dated 5th May 1899.
	Surabhu	..	..	5,571	..	5,571	..	No. 106, dated 6th March 1899.
	Gandikota extension A ..	6,075	..	..	6,075	..	..	No. 264, dated 15th June 1899.
	Sibyala extension south ..	594	..	..	594	..	..	No. 368, dated 5th August 1898.
	Salivendra extension A ..	..	..	2,520	..	2,520	..	No. 229, dated 19th May 1899.
	Do. do. B ..	..	..	2,260	..	2,260	..	Do.
	Area notified previous years.	316,154	..	..	* 640	315,514	..	....
	Total ..	350,331	547	39,743	7,309	382,765	598	
	Reserved forests.							
Nellore ..	Sriharikota proper	..	..	25,314	..	25,314	..	No. 483, dated 26th October 1898.
	Cherlopalli extension ..	..	..	320	..	320	..	No. 239, dated 23rd May 1898.
	Mogallur block B extension.	..	..	550	..	550	..	No. 240, dated 23rd May 1898.
	Rapur-Veligonda extension C.	..	..	2,450	..	2,450	..	No. 241, dated 20th May 1898.
	Pallakonda	..	..	300	..	300	..	No. 245, dated 23rd May 1898.
	Tummalatalupur extension..	..	..	700	..	700	..	No. 247, dated 23rd May 1898.
	Rapur-Veligonda extension B.	..	..	6,200	..	6,200	..	No. 263, dated 3rd June 1898.
	Sydapuram block A extension.	..	..	450	..	450	..	No. 264, dated 3rd June 1898.
	Sydapuram block B extension.	..	..	450	..	450	..	Do.

* By rectification of area. Excludes 381 acres cut off from the Dhodiyam extension B block notified both under sections 4 and 16 during the year.

District.	Name of forest or land.	Area on 1st July 1898. Acres.	Area on 1st July 1898. Equivalent in square miles.	Added during the year. Acres.	Excluded during the year. Acres.	Area on 30th June 1899. Acres.	Area on 30th June 1899. Equivalent in square miles.	Number and date of notification of addition or exclusion.
	Reserved forests—cont.							
	Tirumalapad reserve ..	..	..	400	..	400	..	No. 306, dated 23rd June 1898.
	Chipinapi do. ..	..	..	420	..	420	..	No. 325, dated 8th July 1898.
	Chaganam extension ..	..	..	500	..	500	..	No 364, dated 30th July 1898.
	Chintalapalam reserve ..	..	..	400	..	400	..	No. 482, dated 26th October 1898.
	Rapur-Veligonda block B extension.	..	..	2,060	..	2,060	..	No. 484, dated 27th October 1898.
	Mahimalur	..	..	9,840	..	9,840	..	No. 489, dated 26th October 1898.
	Gavaravaram	..	..	6,490	..	6,490	..	No. 233, dated 20th May 1899.
	Yerrukollu Gundamadakala.	..	..	3,600	..	3,600	..	No. 337, dated 15th July 1898.
	Korisakonda extensions A and B.	..	..	1,640	..	1,640	..	No. 465, dated 4th October 1898.
	Gundlakonda	..	..	720	..	720	..	No. 538, dated 19th November 1898.
	Area notified previous years.	354,516	554	..	..	354,516	..	....
	Total ..	354,516	554	62,744	..	417,260	652	
	Reserved lands (not transferred to reserved forests during the year).							
	Nandipad	..	..	2,670	..	2,670	..	No. 539, dated 19th November 1898.
	Udayagiri-Yerrakonda extension.	..	..	600	..	600	..	No. 556, dated 3rd December 1898.
Nellore—*cont.*	Thotalacheruvupalli ..	..	..	1,400	..	1,400	..	No. 9, dated 5th January 1899.
	Guvvadi, east	..	..	1,500	..	1,500	..	No. 15, dated 5th January 1899.
	Do. west	..	..	1,800	..	1,800	..	Do.
	Dugadarthi extension ..	..	..	800	..	800	..	No. 543, dated 19th November 1898.
	Pedda Alavalapad	..	..	1,150	..	1,150	..	No. 390, dated 18th August 1898.
	Nandanavanam extension A.	..	..	660	..	660	..	Do.
	Ayyavaripalli	..	..	1,200	..	1,200	..	Do.
	Musunur	..	..	1,000	..	1,000	..	No. 402, dated 29th August 1898.
	Mogilicherla, west	..	..	860	..	860	..	No. 408, dated 29th August 1898.
	Hajipuram	..	..	1,925	..	1,925	..	No. 537, dated 19th November 1898.
	Nandanavanam block B, extension B.	..	..	600	..	600	..	No. 541, dated 19th November 1898.
	Nandanavanam block B, extension C.	..	..	360	..	360	..	Do.
	Pedacherlopalli	..	..	1,700	..	1,700	..	No. 560, dated 3rd December 1898.
	Inimerla	..	..	4,280	..	4,280	..	No. 31, dated 12th January 1899.
	Raviguntapalli	..	..	1,400	..	1,400	..	No. 64, dated 10th February 1899.
	Mogilicherla, north ..	..	..	1,120	..	1,120	..	No. 137, dated 27th March 1899.
	Dasaripalli	..	..	760	..	760	..	No. 26, dated 12th January 1899.
	Udayagiri-Veligonda extension.	2,560	..	..	2,560	..	..	No. 315, dated 28th June 1898.
	Area notified previous years.	15,663	..	..	* 5,747	9,916	..	....
	Total ..	18,223	28	25,785	8,307	35,701	56	
	Reserved forests.							
	Tirumalavayal extension II.	..	..	122	..	122	..	No. 329, dated 8th July 1898.
	Kavanur do. I.	..	..	39	..	39	..	No. 359, dated 30th July 1898.
Chingleput..	Sonallur do. II.	..	..	224	..	224	..	No. 382, dated 13th August 1898.
	Kattankolathur do. I.	..	..	180	..	180	..	No. 383, dated 13th August 1898.
	Gudalur do. I.	..	..	27	..	27	..	No. 387, dated 13th August 1898.

* At settlement.

District.	Name of forest or land.	Area on 1st July 1898. Acres.	Area on 1st July 1898. Equivalent in square miles.	Added during the year. Acres.	Excluded during the year. Acres.	Area on 30th June 1899. Acres.	Area on 30th June 1899. Equivalent in square miles.	Number and date of notification of addition or exclusion.
	Reserved forests—cont.							
Chingleput —*cont.*	Sonallur extension I ..	..	..	40	..	40	..	No. 338, dated 18th August 1898.
	Madayathur do. I ..	..	..	133	..	133	..	No. 395, dated 25th August 1898.
	Gudalur do. II ..	..	..	95	..	95	..	No. 400, dated 29th August 1898.
	Tandrai do. I ..	..	..	175	..	175	..	No. 404, dated 29th August 1898.
	Illalur do. II ..	..	..	187	..	187	..	No. 440, dated 22nd September 1898.
	Alathur do. I ..	..	..	244	..	244	..	No. 441, dated 22nd September 1898.
	Anjur do. ..	..	..	172	..	172	..	No. 490, dated 26th October 1898.
	Kattur do. III ..	..	..	144	..	144	..	No. 493, dated 26th October 1898.
	Vattambakkam do. I ..	..	..	120	..	120	..	No. 512, dated 8th November 1898.
	Sirunkundram B extension I.	..	..	94	..	94	..	No. 513, dated 8th November 1898.
	Acharavakkam extension I.	..	..	205	..	205	..	No. 542, dated 19th November 1898.
	Senkundram do. I.	..	..	362	..	362	..	No. 567, dated 6th December 1898.
	Madambakkam do. I.	..	..	211	..	211	..	No. 116, dated 1st March 1899.
	Kavanippakkam	..	..	677	..	677	..	No. 162, dated 7th April 1899.
	Edamachi	..	..	746	..	746	..	No. 164, dated 29th March 1899.
	Valluvappakkam	..	..	599	..	599	..	No. 179, dated 12th April 1899.
	Karunguli tope	..	..	17	..	17	..	No. 189, dated 22nd April 1899.
	Selaiyur extension I ..	..	..	172	..	172	..	No. 193, dated 26th April 1899.
	Kattugudalur do. I ..	..	..	366	..	366	..	No. 196, dated 22nd April 1899.
	Kattur do. I ..	..	..	165	..	165	..	No. 209, dated 4th May 1899.
	Area notified in previous years.	128,731	201	..	..	128,731	..	....
	Total ..	128,731	201	5,516	..	134,247	210	
	Reserved lands (not transferred to reserved forests during the year).							
	Area notified in previous years.	3,370	5	..	* 341	3,029	5	....
	Reserved forests.							
North Arcot.	Solavaram extension ..	..	..	874	..	874	..	No. 378, dated 13th August 1898.
	Basavareddipalli extension A.	..	..	1,718	..	1,718	..	No. 519, dated 14th November 1898.
	Do. do. B.	..	..	5,758	..	5,758	..	Do.
	Pattikonda	..	..	5,190	..	5,190	..	No. 524, dated 14th November 1898.
	Kinatipalli extension ..	..	..	24	..	24	..	No. 165, dated 7th April 1899.
	Alapalli	..	..	2,029	..	2,029	..	No. 194, dated 22nd April 1899.
	Area notified in previous years.	670,344	1,047	† 121,249	† 58,780	732,813	..	....
	Total ..	670,344	1,047	136,842	58,780	748,406	1,169	
	Reserved lands (not transferred to reserved forests during the year).							
	Tuluva Pushpagiri and 42 other topes.	..	..	834	..	834	..	No. 384, dated 17th August 1898.
	Area notified in previous years.	36,727	57	† 5,380	† 80 / * 42	41,985	..	....
	Total ..	36,727	57	6,214	122	42,819	67	

* At settlement. † Rectification.

District.	Name of forest or land.	Area on 1st July 1898. Acres.	Area on 1st July 1898. Equivalent in square miles.	Added during the year. Acres.	Excluded during the year. Acres.	Area on 30th June 1899. Acres.	Area on 30th June 1899. Equivalent in square miles.	Number and date of notification of addition or exclusion.
	Reserved forests.							
South Arcot.	Kattumayilur extension ..	..	..	459	..	459	..	No. 423, dated 14th September 1898.
	Sorakkolathur	..	..	5,436	..	5,436	..	No. 509, dated 4th November 1898.
	Area notified in previous years.	432,563	676	..	..	432,563	..	....
	Total ..	432,563	676	5,895	..	438,458	685	
	Reserved lands (not transferred to reserved forests during the year).							
	Marur	840	..	..	840	..	..	No. 322, dated 5th July 1898.
	Area notified in previous years.	15,518	..	..	* 8	15,510	..	....
	Total ..	16,358	25	..	848	15,510	24	
	Reserved forests.							
Salem ..	Poyyapatti	..	..	3,256	..	3,256	..	No. 437, dated 20th September 1898.
	Vellalakundam	..	..	3,329	..	3,329	..	No. 38, dated 24th January 1899.
	Area notified in previous years.	784,791	1,226	† 570	† 526	784,835	..	....
	Total ..	784,791	1,226	7,155	526	791,420	1,237	
	Reserved lands (not transferred to reserved forests during the year).							
	Nagaluthu extension ..	..	..	1,360	..	1,360	..	No. 159, dated 6th April 1899.
	Parigam extensions A and B.	..	..	16,627	..	16,627	..	No. 187, dated 22nd April 1899.
	Kallavi	4,080	..	..	..	4,080	..	No. 284, dated 19th June 1899.
	Area notified in previous years.	97,809	..	‡ 1,145	§ 1,692	97,262	..	....
	Total ..	101,889	..	19,132	1,692	119,329	186	
	Reserved forests.							
Trichinopoly.	Punganur tank-bed ..	..	..	303	..	303	..	No. 434, dated 20th September 1898.
	Kumarikutti Hill	..	..	1,499	..	1,499	..	No. 439, dated 20th September 1898.
	Kulumur extension I ..	..	..	280	..	280	..	No. 448, dated 28th September 1898.
	Naganur	..	..	878	..	878	..	No. 461, dated 4th October 1898.
	Siruvassur	..	..	1,984	..	1,984	..	No. 463, dated 4th October 1898.
	Periyavalayam east extension I.	..	..	80	..	80	..	No. 464, dated 4th October 1898.
	Kariyanur	..	..	774	..	774	..	No. 466, dated 4th October 1898.
	Pillankolam	..	..	1,267	..	1,267	..	No. 474, dated 12th October 1898.
	Adavattur tank-bed ..	..	..	269	..	269	..	Do.
	Kilakulathur	..	..	1,313	..	1,313	..	No. 492, dated 26th October 1898.
	Irur	..	..	877	..	877	..	No. 521, dated 14th November 1898.
	Pulambadi No. 2	..	..	3,910	..	3,910	..	No. 570, dated 6th December 1898.
	Mattavarai Mavalingai ..	..	..	912	..	912	..	No. 11, dated 5th January 1899.
	Edaiyathangudi	..	..	890	..	890	..	No. 207, dated 5th May 1899.
	Area notified in previous years.	122,851	192	..	..	122,851	..	....
	Total ..	122,851	192	15,236	..	138,087	216	

* At settlement. † By rectification. ‡ Added to reserved land by Collector. § Unreserved by Collector.

District.	Name of forest or land.	Area on 1st July 1898. Acres.	Area on 1st July 1898. Equivalent in square miles.	Added during the year. Acres.	Excluded during the year. Acres.	Area on 30th June 1899. Acres.	Area on 30th June 1899. Equivalent in square miles.	Number and date of notification of addition or exclusion.
	Reserved lands (not transferred to reserved forests during the year).							
Trichinopoly—*cont.*	Mettupalayam	1,878	..	..	1,878	..	..	No. 323, dated 5th July 1898.
	Omandur	321	..	732	..	1,053	..	No. 195, dated 27th April 1899.
	Edumalai	959	..	521	..	1,480	..	
	Vellakkalpatti	1,224	..	634	..	1,858	..	
	Pulivalam	522	..	341	..	863	..	
	Mavilippatti	1,010	..	891	..	1,901	..	
	Maniyankurichi	..	..	1,160	..	1,160	..	
	Kottathur	..	..	2,556	..	2,556	..	
	Velur	..	..	3,239	..	3,239	..	
	Nakkasalem	..	..	3,094	..	3,094	..	
	Manmalai reserved forest extension.	..	..	692	..	692	..	
	Marmareddipalayam ..	..	..	1,055	..	1,055	..	
	Valkaradu	..	..	679	..	679	..	
	Kurichimalai	..	..	1,125	..	1,125	..	
	Sathiramanai	..	..	1,960	..	1,960	..	
	Nedungur	..	..	655	..	655	..	
	T. Kanappadi reserved forest extension.	..	..	172	..	172	..	
	Appananallur	..	..	931	..	931	..	
	Viramachampatti	..	..	4,788	..	4,788	..	
	Pagalavadi	..	..	1,057	..	1,057	..	
	Sathanur	..	..	808	..	808	..	
	Sengathupatti reserved forest extension.	..	..	1,622	..	1,622	..	
	Vairisettipalayam Talugai ..	..	..	1,965	..	1,965	..	
	Valaiyur	..	..	725	..	725	..	
	T. Kanapadi enclosure ..	..	..	21	..	21	..	
	Area notified in previous years.	34,113	53	..	* 683 † 596	32,834	..	No. 317, dated 1st July 1898.
	Total ..	40,027	63	31,423	3,157	68,293	107	
	Reserved forests.							
Tanjore ..	Area notified in previous years.	11,519	18	..	..	11,519	18	....
South Canara.	Dottinaberu	..	..	646	..	646	..	No. 377, dated 13th August 1898.
	Hulimishepare	..	..	1,897	..	1,897	..	No. 407, dated 29th August 1898.
	Mavinaguli	..	..	1,357	..	1,357	..	No. 411, dated 1st September 1898.
	Mudugalpare	..	..	7,884	..	7,884	..	No. 449, dated 28th September 1898.
	Kamradihola	..	..	911	..	911	..	No. 487, dated 27th October 1898.
	Chittur	..	..	2,234	..	2,234	..	No. 507, dated 7th November 1898.
	Balkatteohla	..	..	527	..	527	..	No. 508, dated 8th November 1898.
	Naganakalbare	..	..	5,400	..	5,400	..	No. 527, dated 14th November 1898.
	Vadanaberu hola	..	..	537	..	537	..	No. 548, dated 24th November 1898.
	Savantagudde	..	..	317	..	317	..	No. 549, dated 28th November 1898.
	Baregundi	..	..	8,024	..	8,024	..	No. 13, dated 5th January 1899.
	Mettukallugudde	..	..	5,575	..	5,575	..	No. 83, dated 18th February 1899.
	Surikodlu	..	..	3,855	..	3,855	..	No. 104, dated 3rd March 1899.
	Hullumurdibare	..	..	9,674	..	9,674	..	No. 136, dated 27th March 1899.
	Baindur	..	..	5,795	..	5,795	..	No. 186, dated 22nd April 1899.
	Bakudihola	..	..	1,064	..	1,064	..	No. 192, dated 22nd April 1899.
	Koratikal bare	..	..	6,453	..	6,453	..	No. 188, dated 22nd April 1899.
	Jarvattukadu	..	..	418	..	418	..	No. 49, dated 30th January 1899.
	Matkalgudde	..	..	251	..	251	..	No. 51, dated 30th January 1899.
	Charmadi kanapady ..	..	..	12,800	..	12,800	..	No. 267, dated 25th May 1898.
	Area notified in previous years.	106,371	166	..	‡ 26	106,345	..	....
	Total ..	106,371	166	75,619	26	181,964	284	

* At settlement. † Unreserved by Collector. ‡ Rectification.

District.	Name of forest or land.	Area on 1st July 1898. Acres.	Area on 1st July 1898. Equivalent in square miles.	Added during the year. Acres.	Excluded during the year. Acres.	Area on 30th June 1899. Acres.	Area on 30th June 1899. Equivalent in square miles.	Number and date of notification of addition or exclusion.
	Reserved lands (not transferred to reserved forests during the year).							
South Canara —*cont.*	Hulikuppana ane	284	..	..	284	..	..	No. 175, dated 18th April 1899.
	Miyar	17,550	..	..	..	17,550	..	No. 316, dated 1st July 1898.
	Nidle	3,286	..	..	..	3,286	..	Do.
	Nerankimale	3,960	..	..	..	3,960	..	No. 370, dated 11th August 1898.
	Kidu	6,436	..	..	..	6,436	..	No. 389, dated 17th August 1898.
	Kombar	9,471	..	..	..	9,471	..	No. 391, dated 17th August 1898.
	Mujur	10,250	..	..	..	10,250	..	No. 406, dated 29th August 1898.
	Konaji	6,642	..	..	..	6,642	..	No. 555, dated 3rd December 1898.
	Kunthur	3,945	..	..	..	3,945	..	No. 160, dated 6th April 1899.
	Padnur	3,173	..	..	..	3,173	..	No. 224, dated 20th May 1899.
	Kilarmale	9,685	..	..	..	9,685	..	No. 243, dated 1st May 1899.
	Area notified in previous years.	461,993	..	..	* 3,063 † 1,441 ‡ 12,981	444,508	..	....
	Total ..	536,675	839	..	17,769	518,906	811	
	Reserved forests.							
North Malabar.	Nulpoya	3,613	6	..	155	3,458	..	No. 8, dated 6th January 1899.
	Kanoth extension A ..	..	..	1,147	..	1,147	..	No. 82, dated 18th February 1899.
	Area notified in previous years.	97,238	151	..	..	97,238	..	....
	Total ..	100,851	157	1,147	155	101,843	159	
	Reserved lands (not transferred to reserved forests during the year).							
	Dindimal	1,575	..	..	1,575	..	..	No. 553, dated 28th November 1898.
	Area notified in previous years.	72,256	..	..	..	72,256	..	
	Total ..	73,831	115	..	1,575	72,256	113	
	Reserved forests.							
South Malabar.	Area notified in previous years.	25,416	40	§ 96,000	..	121,416	190	No. 486, dated 25th October 1898.
	Reserved lands (not transferred to reserved forests during the year).							
	Area notified in previous years	88,731	138	..	..	88,731	138	....
	Reserved forests.							
The Nilgiris.	Keraipadu	..	..	52	..	52	..	No. 386, dated 18th August 1898.
	Mullimalai	..	..	118	..	118	..	
	Carritshola additions I to V.	..	..	196	..	196	..	No. 438, dated 17th September 1898.
	Belarumbuhalla	..	..	138	..	138	..	No. 525, dated 14th November 1898.
	Arapillai	..	..	12	..	12	..	No. 93, dated 27th February 1890.
	Sampangi	..	..	8	..	8	..	
	Bikkemara	..	..	21	..	21	..	
	Neggilhada	..	..	17	..	17	..	
	Thogalhatti	..	..	19	..	19	..	
	Mokkai	..	..	16	..	16	..	No. 99, dated 6th March 1899.
	Uchukadavu	..	..	6	..	6	..	
	Konemara	..	..	11	..	11	..	
	Selemara	..	..	10	..	10	..	
	Naduvattam	..	..	..	3	..	..	No. 28, dated 12th January 1899.

* At settlement. † Rectification. ‡ Unreserved by Collector. § The new Amarampalem reserve.

District.	Name of forest or land.	Area on 1st July 1898. Acres.	Area on 1st July 1898. Equivalent in square miles.	Added during the year. Acres.	Excluded during the year. Acres.	Area on 30th June 1899. Acres.	Area on 30th June 1899. Equivalent in square miles.	Number and date of notification of addition or exclusion.
	Reserved forests—cont.							
The Nilgiris —*cont.*	Craigmore	..	..	..	1	..	..	No. 183, dated 26th April 1899.
	Bokkepuram	..	..	..	34	..	..	
	Singara	..	..	..	135	..	..	
	Kullar	..	..	..	32	..	..	
	Kalhatti	..	..	..	79	..	..	
	Suttonshola	..	..	..	18	..	..	No. 348, dated 22nd July 1898.
	Area notified in previous years.	228,962	358	‡ 91	..	229,053	..	....
	Total ..	228,962	358	715	302	229,375	358	
	Reserved lands (not transferred to reserved forests during the year).							
	Doddahulla							
	Devalahulla							
	Mudidevaramund							
	Sandynulla reserve No. II ..							
	Pakalamund							
	Attikallu							
	Kalhatti road Nos. I and II.	..	..	874	..	874	..	No. 523, dated 14th November 1898.
	Vokkanshola							
	Dodabetta No. I addition ..							
	Kodappamund							
	Cairn hill addition							
	Red hill reserve No. I ..							
	Curzon valley I and II ..							
	Avarahalla							
	Mavada reserve addition ..							
	Vagappanai additions I and II.	..	..	540	..	540	..	No. 102, dated 3rd March 1899.
	Uradihalli							
	Tamugai							
	Coonoorali I and II							
	Cherambadi reserve addition.	..	..	1,961	..	1,961	..	No. 127, dated 20th March 1899.
	Ammankovil additions I and II.	..	..	2,398	..	2,398	..	
	Rock wood	..	..	938	..	938	..	
	Area notified in previous years.	79,468	124	..	* 3 † 1,050	78,415	..	....
	Total ..	79,468	124	6,711	1,053	85,126	133	
	Reserved forests.							
North Coimbatore.	Guligy	..	..	1,120	..	1,120	..	No. 250, dated 27th May 1898.
	Vellodu	..	..	51	..	51	..	No. 303, dated 28th June 1898.
	Pandiyampalayam	..	..	1,088	..	1,088	..	No. 338, dated 16th July 1898.
	Kanjikovil	..	..	422	..	422	..	No. 339, dated 16th July 1898.
	Thambikalayan	..	..	273	..	273	..	No. 430, dated 20th September 1898.
	Attavanai	..	..	52	..	52	..	No. 494, dated 27th October 1898.
	Arachalur (plain)	..	..	1,686	..	1,686	..	No. 558, dated 28th November 1898.
	Area notified in previous years.	674,382	1,054	..	‡ 176	674,206	..	....
	Total ..	674,382	1,054	4,692	176	678,898	1,061	
	Reserved lands (not transferred to reserved forests during the year).							
	Area notified in previous years.	356,665	557	..	* 8	356,657	557	
	Reserved forests.							
South Coimbatore.	Area notified in previous years.	418,292	654	§ 97	..	418,389	654	No. 431, dated 17th September 1898.
	Reserved lands (not transferred to reserved forested uring the year).							
	Area notified in previous years.	1,885	3	..	..	1,885	3	....

* At settlement. † Unreserved by Collector. ‡ Rectification. § Sankararayapuram.

District.	Name of forest or land.	Area on 1st July 1898. Acres.	Area on 1st July 1898. Equivalent in square miles.	Added during the year. Acres.	Excluded during the year. Acres.	Area on 30th June 1899. Acres.	Area on 30th June 1899. Equivalent in square miles.	Number and date of notification of addition or exclusion.
	Reserved forests.							
Madura ..	Kodimangalam	..	..	3,256	..	3,256	..	G.O., No. 261, dated 7th May 1898.
	Anagirishola	..	..	73	..	73	..	Notification No. 86, dated 18th February 1899.
	Area notified in previous years.	363,081	567	..	..	363,081	..	....
	Total ..	363,081	567	3,329	..	366,410	572	
	Reserved lands (not transferred to reserved forests during the year).							
	Siruganimalai	399	..	..	399	..	..	No. 54, dated 4th February 1899.
	Area notified in previous years.	26,095	..	..	* 2,349	23,746	..	....
	Total ..	26,494	41	..	2,748	23,746	37	
Tinnevelly ..	*Reserved forests.*							
	Mahendragiri	..	..	34	..	34	..	No. 249, dated 18th May 1898.
	Nelliyuthu	..	..	73	..	73	..	No. 281, dated 6th June 1898.
	Shermalai	..	..	28	..	28	..	
	Alakonandal	..	..	62	..	62	..	
	Gengaikondan	..	..	1,391	..	1,391	..	No. 363, dated 2nd August 1898.
	Manpothai	..	..	1,242	..	1,242	..	No. 511, dated 8th November 1898.
	Area notified in previous years.	263,974	412	† 5	† 50	263,929	..	....
	Total ..	263,974	412	2,835	50	266,759	417	
	Reserved lands (not transferred to reserved forests during the year).							
	Mullakadu A	920	..	..	920	..	..	No. 421, dated 9th September 1898.
	Kadayanallur reserved forest No. III-C 2 extepsion A.	113	..	..	113	..	..	No. 535, dated 18th November 1898.
	Kadayanallur reserved forest No. III-C 2 extension B.	35	..	..	35	..	..	
	Extension to Courtallam reserved forest No. III, blocks I, II and III. Extension to Krishnapuram reserved forest.	..	..	3,923	..	3,923	..	No. 526, dated 14th November 1898.
	Area notified in previous years.	3,607	..	..	* 40	3,567	..	....
	Total ..	4,675	7	3,923	1,108	7,490	12	

* At settlement. † Rectification.

FORM

Forest

STATEMENT showing the Progress made in, and the Expenditure

Name of forest district.	Area already settled at commencement of year.	Areas finally settled during the year.					
		Number and date of Government Order according final sanction to the settlement.	Name of forest settled.	Area.	Expenditure incurred during the year on areas finally settled.		Entire cost per square mile of areas finally settled during the year.
					In forest accounts.	In other accounts.	
1	2	3	4	5	6	7	8
							Northern
	SQ. MLS.			SQ. MLS.	RS.	RS.	RS. A. P.
Ganjám ..	239	No. 411, dated 25th July 1898.	Rayapada	11	..	..	..
		No. 503, dated 31st August 1898.	Paichalia	12	..	..	..
		No. 517, dated 9th September 1898.	Dowgam	4	..	..	..
		No. 525, dated 14th September 1898.	Darpangia	38	..	..	..
		No. 65, dated 24th January 1899.	Gullery	43	..	..	..
		No. 256, dated 22nd April 1899.	Gogodo	16	..	..	..
		No. 316, dated 19th May 1899.	Ambozora	52	..	..	..
		No. 357, dated 6th June 1899.	Paluru block of the South Mohiri reserve.	* 1	..	..	..
		No. 371, dated 13th June 1899.	Gundribadi and north and south extensions.	* 12	..	..	..
			Total ..	189	..	..	..
Vizagapatam.	138	No. 741, dated 3rd December 1898.	Pedimikonda extension No. 38-I.				
		No. 781, dated 16th December 1898.	Chinnagora extension No. 28-I.				
		Do.	Chinnagora extension No. 28-II.				
		Do.	Chinnagora extension No. 28-III.	4	..	..	..
		Do.	Chinnagora extension No. 28-IV.				
		No. 72, dated 26th January 1899.	Karaka extension No. 41-II (*a*).				
		Do.	Do. ,, 41-II (*b*).				
			Total ..	4	..	..	..
Gódávari ..	847	No. 239, dated 11th April 1899.	Papikonda	19	10	..	0 8 5
		No. 224, dated 2nd April 1899.	Kovvada *	30	..	..	..
			Total ..	49	10	..	..
Kistna ..	713	No. 335, dated 26th May 1899.	Yellamanda extension No. 2 ..	2			
		No. 227, dated 6th April 1899.	Bollapalli extension No. 7 ..	4			
		No. 752, dated 6th December 1898.	Gangalakunta additions Nos. 1, 2 and 3.	†			
		No. 322, dated 19th May 1899.	Kuragallu extension No. 1 ..	†			
		No. 358, dated 6th June 1899.	Pamidipad *	3			
		No. 327, dated 20th May 1899.	Mekapad	3			
		No. 260, dated 22nd April 1899.	Koppukonda extension No. 1.	5			
		No. 56, dated 19th January 1899.	Tummureodu block No. II ..	4			
		No. 518, dated 9th September 1898.	Do. ,, IV ..		3,328	..	..
		Do.	Do. ,, V ..	3			

* Reservation takes effect from 1899–1900. † Below one square mile.

No. 45.

Department.

incurred on, Forest Settlements during 1898–99.

Areas undergoing settlement.						
At commencement of the year.		Taken in hand during the year.		Expenditure incurred during the year on areas undergoing settlement.		Estimate of areas in which settlement operations have not yet commenced.
Name of tract.	Area.	Name of tract.	Area.	In forest accounts.	In other accounts.	
9	10	11	12	13	14	15
Circle.						
	SQ. MLS.		SQ. MLS.	RS.	RS.	SQ. MLS.
Kriamba	36	....	..	1,956	..	
Tiliki	24	....	..	..	..	
Rogada	25	....	..	..	..	
Ramagodo	10	....	..	..	..	
Bainamari	6	....	..	..	..	30
South Mohiri Rampalli block.	5	....	..	..	..	
Chatrapur	1	....	..	..	..	
Podhara	1	....	..	..	..	
Rankuhanumanthapuram ..	2	....	..	..	..	
Total ..	110		..	1,956	..	
Arlova extension No. 42 I-A ..	2	Sitakhandi	8	1,955	..	
Do. I-B ..		....	..	..	..	
Karaka extension No. 40-I ..	2	....	..	..	..	
Kadagandi	16	....	..	..	..	90
Dharakonda	73	....	..	..	..	
Bharnakonda inclusive of Molalanka and Gadilavalasa.	21	....	..	..	..	
		....	..	..	..	
Total ..	114		8	1,955	..	
Kopalli	30	Doramamidi extension	‡ ..			
Jilugumilli	5	....	..			
Dharbhagudem	3	....	..	19,590	..	49
Singampalli	22	....	..			
Ultimathule						
Rajavomangi						
Total ..	60		..	19,590	..	
Nigampatam	12	Uppumagalur	4	3,725	..	
Nayanapalli extension No. 1 ..		Gokanakonda extension No. 1.				
Kothur extension No. 1 ..		Daida	13			
Gollapudi		Kakirla extension No. 3 ..				
Budavada extension No. 1 ..	4	Do. ,, 2 ..				
Do. ,, 2 ..		Nagarazupalli extension No. 1.	3			
Do. ,, 3 ..		Malleswaram				
Matsavaram	5	Guttikonda extension No. 3 ..	1			
Vemavaram		....	..	..	..	
Bollapalli extension No. 1 ..	20	....	..	..	..	..
Vinukonda		....	..	..	..	
Muppala		....	..	..	..	
Kakirala extension No. 7 ..		....	..	..	..	
Darvemula do. ,, 1 ..	19	....	..	..	..	
Goli		....	..	..	..	
Pasvemula extension No. 5 ..		....	..	..	..	
Vedullapalli do. ,, 2 ..		....	..	..	..	
Ipurupalem	9	....	..	..	..	
Chirala		....	..	..	..	

‡ Below one square mile.

Statement showing the Progress made in, and the Expenditure

Name of forest district.	Area already settled at commencement of year.	Areas finally settled during the year.					
		Number and date of Government Order according final sanction to the settlement.	Name of forest settled.	Area.	Expenditure incurred during the year on areas finally settled.		Entire cost per square mile of areas finally settled during the year.
					In forest accounts.	In other accounts.	
1	2	3	4	5	6	7	8
							Northern
Kistna—*cont.*	SQ. MLS. 713	No. 530, dated 17th September 1898.	Gadimetla	SQ. MLS.	RS.	RS.	RS. A. P.
		No. 749, dated 6th December 1898.	Bollapalli extension No. 9 ..	1			
		No. 10, dated 5th January 1899.	Muthayapalem extension No. 1	1			
		No. 670, dated 14th November 1898.	Pullaripalem	3			
		No. 769, dated 12th December 1898.	Perlavallapalem				
		No. 529, dated 17th September 1898.	Rekullagadda	5			
		No. 507, dated 1st September 1898.	Nizampatam extension ..	4			
		No. 412, dated 25th July 1898.	Guttikonda extension No. 9 ..				
			Total ..	38	3,328	..	87 9 3
Kurnool ..	1,962	No. 385, dated 11th July 1898.	Maduva	1	..	2	..
		No. 393, dated 16th July 1898.	Sirvel addition No. 3 ..	18	..	2	..
		No 558, dated 28th September 1898.	Veldurti	2	..	2	..
		No. 618, dated 26th October 1898.	Dudyala	7	..	2	..
		No. 668, dated 11th November 1898.	Betamcherla	14	..	2	..
			Total ..	42	..	10	..
Bellary ..	464	No. 489, dated 29th August 1898.	Kulluru west	2			
		No. 461, dated 18th August 1898.	Molagavalli	2			
		No. 780, dated 16th December 1898.	Kodalu	1			
		No. 12, dated 5th January 1899.	Ubbalagandi extension ..	2			
		No. 145, dated 27th February 1899.	Bellahunshi	2	1,201	..	..
		No. 263, dated 22nd April 1899.	Hampasagaram	2			
		No. 109, dated 10th February 1899.	Koilargatta extension ..	1			
		No. 321, dated 19th May 1899.	Basarakodu extension * ..	1			
			Total ..	13	1,201	..	..
Anantapur.	458	No. 626, dated 27th October 1898.	Narsampalli	3	..	..	..
		No. 751, dated 6th December 1898.	Kondapalli	7	..	..	..
		No. 367, dated 1st July 1898.	Hottebetta, north	11	..	..	..
		No. 557, dated 28th September 1898.	Ratnagiri	2	..	..	..

* Reservation takes effect from 1899-1900.

incurred on, Forest Settlements during 1898-99—*cont.*

Areas undergoing settlement.						
At commencement of the year.		Taken in hand during the year.		Expenditure incurred during the year on areas undergoing settlement.		Estimate of areas in which settlement operations have not yet commenced.
Name of tract.	Area.	Name of tract.	Area.	In forest accounts.	In other accounts.	
9	10	11	12	13	14	15

Circle—cont.

	SQ. MLS.		SQ. MLS.	RS.	RS.	SQ. MLS.
Balusupad		....	..	..	..	
Jaggiapet extension No. 5 ..		....	..	..	..	
Do. ,, 6 ..	7	....	..	..	..	
Do. ,, 7 ..		....	..	..	..	
Gandrayi		....	..	..	..	
Kandipad extension No. 1 ..		....	..	..	..	
Tangeda do. ,, 1 ..		....	..	..	..	
Do. do. ,, 2 ..	7	....	..	..	..	
Madinapad do. ,, 1 ..		....	..	..	..	
Do. do. ,, 2 ..		....	..	..	..	240
Sitaramapuram		....	..	..	..	
Mukteswaram	2	....	..	..	..	
Mutukur extension No. 5 ..	32	....	..	..	..	
Kandlagunta do. ,, 1 ..		....	..	..	..	
Gamalapad		....	..	..	..	
Gangulakunta extension No. 1.		....	..	..	..	
Rentachintala	11	....	..	..	..	
Paluvayi		....	..	..	..	
Pasvemula extension No. 9 ..		....	..	..	..	
Kopparam block No. 1 ..	4	....	..	..	..	
Madugula		....	..	..	..	
Total ..	132		21	3,725	..	
Nandyal addition No. I ..	11	....	..	..	115	
Do. No. II ..	20	....	..	..	220	
Velgode	69	....	..	..	971	
Guvvalagunta	18	....	..	..	254	
Eastern Nallamalai block No. I.	20	....	..	253	241	
Do. do. ,, II.	32	....	..	..	490	
Do. do. ,, III	50	....	..	..	530	
Loddipalli	2	....	..	..	25	
Panem	46	....	..	..	480	458
Alamur	† 1	....	..	..	10	
Gani	88	....	..	..	22	
Giddalur block No. I	11	....	..	..	..	
Do. No. II	11	....	‡ ..	..	..	
....	..	Mukkella	‡ ..	..	2	
....	..	Eastern Nallamalai block No. V	14	..	2	
....	..	Do. do. ,, IV	45	..	2	
....	..	Markapur addition	‡ ..	..	2	
Total ..	379		59	253	3,366	
Marutla	5	Shidagallu block No. A ..	5	50	..	
Kosigi, north	1	Do. ,, B ..	1	..	..	
Bachigondanahalli	2	Do. ,, C ..	8	..	..	
Chintalapalli, north	2	Appayyanahalli	3	..	..	
Do. south	2	Hulikunta	6	..	..	
Jittinakatta, south-east ..	2	Somalapuram south-east extension.	1	..	..	57
Do. north-east ..	2					
Kodalur	2	Tornagal extension	1	..	..	
Kalluru, east	1	Gundabommanahalli	2	..	..	
....	..	Marutla, north-east	2	..	..	
....	..	Ubbalagandi north extension ..	1	..	..	
Total ..	19		30	50	..	
....	..	....	..	..	..	
....	..	....	..	..	..	
....	..	....	..	..	..	
....	..	....	..	..	..	5
....	..	....	..	..	..	
....	..	....	..	..	..	
....	..	....	..	..	..	
....	..	....	..	..	..	

† By rounding off fraction. ‡ Below one square mile.

Statement showing the Progress made in, and the Expenditure

Name of forest district.	Area already settled at commencement of year.	Areas finally settled during the year.					
		Number and date of Government Order according final sanction to the settlement.	Name of forest settled.	Area.	Expenditure incurred during the year on areas finally settled.		Entire cost per square mile of areas finally settled during the year.
					In forest accounts.	In other accounts.	
1	2	3	4	5	6	7	8
							Northern
	SQ. MLS.			SQ. MLS.	RS.	RS.	RS. A. P.
Anantapur—*cont.*	458	No. 620, dated 27th October 1898.	Yemmihatti	3	..	..	..
		No. 770, dated 12th December 1898.	Pillahalli	2	..	..	..
		No. 231, dated 6th April 1899.	Khairevu	8	..	..	..
		No. 228, dated 6th April 1899.	Shetturu	7	..	..	..
		No. 258, dated 22nd April 1899.	Ayidukallu	6	..	..	..
			Total ..	49	..	..	..
							Central
Cuddapah ..	1,806	No. 543, dated 21st September 1898.	Seshachallam extension B ..	3	..	..	..
		No. 41, dated 12th January 1899.	Kanakalakonda extension ..	7	..	..	..
		No. 144, dated 27th February 1899.	Patur extension	8	..	..	..
		No. 177, dated 11th March 1899.	Dhodyam extension A ..	3	..	..	..
		No. 111, dated 10th February 1899.	Do. do. B ..	2	..	..	..
		No. 110, dated 10th February 1899.	Gandikota extension B ..	1	..	..	..
		No. 147, dated 27th February 1899	Do. do. C ..	1	..	..	..
		No. 571, dated 4th October 1898.	Musalikunta	3	..	..	..
		No. 143, dated 27th February 1899.	Neridikonda	10	..	..	..
		No. 779, dated 16th December 1898.	Yellutla extension B	3	..	..	..
		No. 543, dated 21st September 1898.	Seshachallam extension C ..	8	..	..	..
		No. 351, dated 2nd June 1899.	Kanamalapalli extension * ..	6	..	..	..
		No. 356, dated 6th June 1899.	Vontimitta extension * ..	4	..	..	..
		No. 383, dated 19th June 1899.	Chiyyavaram extension * ..	8	..	..	..
			Total ..	67	..	..	..
Nellore ..	572	No. 379, dated 8th July 1898.	Chipinapi				
		No. 389, dated 15th July 1898.	Yerukollu Gunda Madakala ..	7	..	..	..
		No. 422, dated 30th July 1898.	Chaganam extension				
		No. 568, dated 4th October 1898.	Korasikonda A and B ..	3	..	..	..
		No. 610, dated 26th October 1898.	Chintalapalam				
		No. 614, dated 26th October 1898.	Sriharikota proper	40	..	..	..
		No. 621, dated 27th October 1898.	Rapur-Veligonda block B extension	3	..	..	..
		No. 607, dated 26th October 1898.	Mahimalur	16	..	..	..
		No. 701, dated 19th November 1898.	Gundlakonda	1	..	..	..
		No. 325, dated 20th May 1898.	Gavaravaram	10	..	..	..
			Total ..	80	2,333	..	29 3 7

* Reservation takes effect from 1899-1900.

incurred on, Forest Settlements during 1898-99—*cont.*

Areas undergoing settlement.						
At commencement of the year.		Taken in hand during the year.		Expenditure incurred during the year on areas undergoing settlement.		Estimate of areas in which settlement operations have not yet commenced.
Name of tract.	Area.	Name of tract.	Area.	In forest accounts.	In other accounts.	
9	10	11	12	13	14	15
Circle—cont.						
	SQ. MLS.		SQ. MLS.	RS.	RS.	SQ. MLS.
Total ..	..		..	..	..	
Circle.						
Lankamalai extension ..	68	Kondapuram topes	†..		..	
Idupalapaya extension ..	21	Kodur hill extension	12		..	
Ganganapalli extension ..	60	Surabhu	9		..	
Sangasamudram	8	Gorivikanama extension ..	2		..	
Palakonda extension	49	Buduguntapalli do. ..	5		..	
Konarazupalli extension ..	36	Gottimanikona do. ..	9		..	
Chitvel extension	22	Gadikota extension	20		..	
Kanchalamoram extension ..	25	Salivendra extension A ..	7		..	
Gundlakonda	7	Do. do. B ..				
Madhaveram extension, east ..	8	Turupukonda extension ..	35	3,643	..	52
Do. west ..		....	..		..	
Sibyala extension, north ..	1	....	..		..	
Papepalli extension, east ..	17	....	..		..	
Do. do. west ..		....	..		..	
Kosinipalli extension ..	2	....	..		..	
Pandikunta	4	....	..		..	
Seshachalam extension D ..	26	....	..		..	
Do. do. A ..	60	....	..		..	
Kokiletikanama extension A ..	10	....	..		..	
Yellutla extension A ..	5	....	..		..	
Total ..	429		99	3,643	..	
Tammanapatam extension ..	1	Ped Alandapadu	2	..	..	
Ballayapalli	1	Nandanavanam A extension ..	1	..	..	
....	..	Ayyavaripalli	3	..	..	
....	..	Musunur				
....	..	Mogilicherla west				
....	..	Hajipuram				
....	..	Nandipad				
....	..	Nandanavanam block extension B	12	..	..	312
....	..	Nandanavanam block extension C				
....	..	Dagadarti extension				
....	..	Udayagiri-Yerrakonda extension				
....	..	Peddacherlopalli	5	..	..	
....	..	Totalacheruvupalli				
....	..	Guvvadi, east	5	..	..	
....	..	Do. west				
....	..	Dasaripalli	10	..	..	
....	..	Inimerla				
....	..	Raviguntapalli				
....	..	Mogilicherla, north	2	..	..	
Total ..	2		40	1,228	..	

† Below one square mile.

Statement showing the Progress made in, and the Expenditure

Name of forest district.	Area already settled at commencement of year.	Areas finally settled during the year.					
		Number and date of Government Order according final sanction to the settlement.	Name of forest settled.	Area.	Expenditure incurred during the year on areas finally settled.		Entire cost per square mile of areas finally settled during the year.
					In forest accounts.	In other accounts.	
1	2	3	4	5	6	7	8
							Central.
	SQ. MLS.			SQ. MLS.	RS.	RS.	RS. A. P.
Chingleput.	201	No. 447, dated 13th August 1898.	Kattankolathur				
		No. 609, dated 26th October 1898.	Anjur extension I				
		No. 447, dated 13th August 1898.	Sonallur extensions I and II ..				
		No. 748, dated 6th December 1898.	Senkundram extension I ..				
		No. 421, dated 30th July 1898.	Kavanur extension I				
		No. 458, dated 17th August 1898.	Gudalur extension I				
		No. 488, dated 29th August 1898.	Do. extension II				
		No. 473, dated 25th August 1898.	Madayathur extension I ..				
		No. 546, dated 22nd September 1898.	Alathur extension I				
		No. 660, dated 8th November 1898.	Sirukundram B. extension I ..				
		No. 295, dated 4th May 1899.	Kattur extension I				
		No. 617, dated 26th October 1898.	Do. extension II	9	..	..	..
		No. 547, dated 22nd September 1898.	Illalur extension II				
		No. 264, dated 22nd April 1898.	Kattu Gudalur extension I ..				
		No. 700, dated 19th November 1898.	Acharavakkam extension I ..				
		No. 266, dated 22nd April 1899.	Karunguli tope				
		No. 234, dated 7th April 1899.	Kavanipakkam				
		No. 213, dated 29th March 1899.	Edamachi				
		No. 241, dated 12th April 1899.	Valluvapakkam				
		No. 487, dated 29th August 1898.	Tandarai extension I				
		No. 378, dated 8th July 1898.	Tirumalavoyal extension II ..				
		No. 275, dated 26th April 1899.	Selayur extension I				
		No. 179, dated 11th March 1899.	Madambakkam extension I ..				
		No. 657, dated 8th November 1898.	Vattambakkam extension I ..				
		No. 360, dated 6th June 1899.	Madayathur extension II * ..	1	..	..	..
			Total ..	10	..	..	..
North Arcot.	1,047	No. 233, dated 7th April 1899.	Kinatipalli extension B ..	8	..	..	..
	† 98	No. 669, dated 14th November 1898.	Pattikonda				
	1,145	No. 676, dated 14th November 1898.	Basavareddipalli extensions A and B.	12	..	..	..
		No. 259, dated 22nd April 1899.	Alapalli	3	..	..	..
		No. 446, dated 13th August 1898.	Solavaram extension	1	..	..	..

* Named Illalur extension I in the report for the previous year. Reservation takes effect from 1899-1900.
† By rectification.

incurred on, Forest Settlements during 1898–99—*cont.*

Areas undergoing settlement.						Estimate of areas in which settlement operations have not yet commenced.
At commencement of the year.		Taken in hand during the year.		Expenditure incurred during the year on areas undergoing settlement.		
Name of tract.	Area.	Name of tract.	Area.	In forest accounts.	In other accounts.	
9	10	11	12	13	14	15
Circle—cont.						
	SQ. MLS.		SQ. MLS.	RS.	RS.	SQ. MLS.
Sirukundram extension I ..						
Nemali extension II						
Kattur extension II	4	....	..	..	1,385	*Nil.*
Maiyur						
Marudam						
Nanmangalam extension II ..						
Total ..	4		..	1,385	..	
Peddur extension	15	Reddigunta tope A and B ..				
Musalimadugu extension ..	3	Balampattu tope				
Pallelakuppam extension A ..	11	Chandragiri do.				
Kallapadi	11	Agarala				
Nellipatla	12	Mudivaripalli				
Viralabanda	4	Eucalyptus				
Totakanama	9	Venkatagirikota				
		Senuru				
		Pichanur				
		Morsapalli				
		Vallam				
		Tellore				
		Alapuram				
		Agramcheri				
		Nelvoy				
		Periyankuppam				

Statement showing the Progress made in, and the Expenditure

Name of forest district.	Area already settled at commencement of year.	Areas finally settled during the year.					
		Number and date of Government Order according final sanction to the settlement.	Name of forest settled.	Area.	Expenditure incurred during the year on areas finally settled.		Entire cost per square mile of areas finally settled during the year.
					In forest accounts.	In other accounts.	
1	2	3	4	5	6	7	8
							Central.
	SQ. MLS.			SQ. MLS.	RS.	RS.	RS. A. P.
North Arcot —*cont.*	1,047 * 98 1,145	....	....	..	..	..	..
			Total ..	24	..	..	..
South Arcot.	676	No. 640, dated 4th November 1898.	Sorakolathur	9	..	Information not available.	..
		No. 526, dated 14th September 1898.	Kattumylur extension ..				
			Total ..	9	..	..	..
Salem ..	1,226	No. 64, dated 24th January 1899.	Vellalakundam	11	..	..	..
		No. 538, dated 20th September 1898.	Poyyappatti				
		No. 334, dated 26th May 1899.	Ponnagarappatti †	6	..	..	..
						»	»
			Total ..	17	..	..	..
Trichinopoly.	192	No. 540, dated 20th September 1898.	Kumarikutti hill	9	..	..	..
		No. 542, dated 20th September 1898.	Punganur tank-bed				
		No. 559, dated 28th September 1898.	Kulumur extension No. I ..				
		No. 572, dated 4th October 1898.	Siruvassur				
		No. 569, dated 4th October 1898.	Periyavalayam eastern extension.				
		No. 570, dated 4th October 1898.	Kariyanur				
		No. 567, dated 4th October 1898.	Naganur				

* By rectification. † Reservation takes effect from 1899–1900.

incurred on, Forest Settlements during 1898–99—*cont.*

Areas undergoing settlement.						Estimate of areas in which settlement operations have not yet commenced.
At commencement of the year.		Taken in hand during the year.		Expenditure incurred during the year on areas undergoing settlement.		
Name of tract.	Area.	Name of tract.	Area.	In forest accounts.	In other accounts.	
9	10	11	12	13	14	15

Circle—cont

	SQ. MLS.		SQ. MLS.	RS.	RS. A. P	SQ. MLS.
.... ..	..	Arimundi				
		Tuluva Pushpagiri				
		Elathur				
		Kunathur				
		Venmani				
		Tachambadi				
		Periyagaram				
		Karapattu				
		Tamarapakkam				
		Velapakam				
		Randam				
		Moranam				
		Serangathur	1	4,304	..	4
		Ananthalai				
		Ponnai anicut				
		Vanian chutram				
		Nedungunam				
		Vallam				
		Kolipuliyur				
		Kodiyalam				
		Tennankur				
		Tandalam				
		Erumavettu				
		Echoor				
		(Mel) Nemili				
		Wandiwash				
Total ..	65		1	4,304	..	
Pinjur	12					
Damarakadu						
Odaiyanattam						
Sankarapuram tope, south ..	12	*Nil.*	*Nil.*	150	Information not available.	*Nil.*
Do. north ..						
Kattuvanjur tope						
Puttai tope						
Total ..	24		..	150	..	
Pattimedu extension	3	Parigam A				
Mavur	3	Do. B	35	1,535	..	
Shelur	28	Nagaluttu extension				
Onnakkarai	6	Kallavi				
Vathampatti	2	....	..	..	..	237
Morappur	9	....	..	..	..	
Ubbarani	19	....	..	..	..	
Velampatti	5	....	..	..	..	
Kurichi	4	....	..	..	..	
Total ..	79		35	1,535	..	
Thatchankurichi	4	T. Kanapadi enclosure No. 2..				
Kundur Kalvarayankolam ..	3	Pulivalam				
Peruvalappur	1	Edumalai				
Mogavanur	2	Valaiyur				
Shemmalai extension No. I ..		Maniyankurichi				
Aniyappur western extension..	4	Kottathur				
Arasadi Arwithi		Vellakalpatti				
Puliyur extension No. I ..		Vairisettipalayam Talugai ..				
Kurumbalur		Mavilippatti				
Naranamangalam	14	Velur				
Iyanarpalayam		Nakkasalem				
Vannarampundi		Mamalai extension				
Sirukodal		Marmareddipalayam				
Kunnam	2	Valkaradu				

Statement showing the Progress made in, and the Expenditure

Name of forest district.	Area already settled at commencement of year.	Areas finally settled during the year.					
		Number and date of Government Order according final sanction to the settlement.	Name of forest settled.	Area.	Expenditure incurred during the year on areas finally settled.		Entire cost per square mile of areas finally settled during the year.
					In forest accounts.	In other accounts.	
1	2	3	4	5	6	7	8
							Central
	SQ. MLS.			SQ. MLS.	RS.	RS.	RS.
Trichinopoly —*cont.*	192	No. 593, dated 12th October 1898.	Adavathur tank-bed	1	..	..	..
		No. 594, dated 12th October 1898.	Pillankolam	2	..	..	..
		No. 608, dated 26th October 1898.	Kilakkolattur	2	..	..	..
		No. 299, dated 5th May 1899.	Edaiyathangudi	1	..	..	..
		No. 750, dated 6th December 1898.	Pulambadi No. II	6	..	..	..
		No. 13, dated 5th January 1899.	Mattavarai Mavalingai ..	3	..	..	..
		No. 671, dated 14th November 1898.	Irur				
			Total ..	24	..	..	..
Tanjore ..	18	....	....	..	..	..	..
							Southern
South Canara.	186	No. 445, dated 13th August 1898.	Dottinaberu	1	Approximately Rs. 1,251.	..	Approximately Rs. 9.
		No. 490, dated 29th August 1898.	Hulimishepare	3			
		No. 508, dated 1st September 1898.	Mavinaguli	2			
		No. 556, dated 28th September 1898.	Mudugalpare	12			
		No. 658, dated 8th November 1898.	Balkatti Hola	1			
		No. 676, dated 14th November 1898.	Naganakalbare	8			
		No. 623, dated 27th October 1898.	Kamradi Hola	1			
		No. 654, dated 7th November 1898.	Chittur	4			
		No. 724, dated 28th November 1898.	Vadanaberu Hola	1			
		No. 725, dated 28th November 1898.	Savantagudde	13			
		No. 11, dated 5th January 1899.	Baregundi				
		No. 81, dated 30th January 1899.	Jarvattukadu	1			
		No. 71, dated 26th January 1899.	Matkalguddi				
		No. 205, dated 27th March 1899.	Hallumurdibare	15			
		No. 156, dated 3rd March 1899.	Surikodlu	6			
		No. 128, dated 18th February 1899.	Mettukallugudde	9			
		No. 254, dated 22nd April 1899.	Bakudi Hola	2			
		No. 257, dated 22nd April 1899.	Koratikalbare	10			
		No. 251, dated 22nd April 1899.	Baindur	9			
		No. 223, dated 2nd April 1899.	Madibare *	30			

* The reservation of this block takes effect in 1899-1900.

incurred on, Forest Settlements during 1898-99—*cont.*

Areas undergoing settlement.						Estimate of areas in which settlement operations have not yet commenced.
At commencement of the year.		Taken in hand during the year.		Expenditure incurred during the year on areas undergoing settlement.		
Name of tract.	Area.	Name of tract.	Area.	In forest accounts.	In other accounts.	
9	10	11	12	13	14	15
Circle—cont.						
	SQ. MLS.		SQ. MLS.	RS.	RS.	SQ. MLS.
Mangalam	3	Kurichimalai				
Sittali		Sittiramanai	56	2,383	..	3
Vempavur	3	Nedungur				
Pulambadi No. I	4	T. Kanapadi extension ..				
Puliyur extension No. II ..	1	Appananallur				
Peraiyur	3	Viramachampatti				
Periyavalayam western extension No. II.		Pagalavadi				
Sundareswarapuram extension.	3	Sattanur				
Ulliyakudi extension		Omandur				
Pilakkurichi		Sengattupatti extension ..				
Tirukonam extension						
Vilangudi extension No. I ..						
Do. ,, II ..	2	....				
Vengaram						
Alavoy extension	1	....				
Karaipakam extension ..						
Siluvacheri	1	....				
Total ..	51		56	2,383	..	
....	..	....	..	..	..	..
Circle.						
Halakki Hola	1	Miyar	28			
Naravi	101	Nidle	5			
Karkamadi	2	Nerankimale	6			
Neralamanekan †	..	Kidu	10			
Sampekere †	..	Kombar	15			
Doddinamane	6	Mujar	16			
Halesomeshwar	3	Konaji	10			
Megani valley	28	Kunthur	6			
Tombattu	20	Padnur	5			
Balimane	20	Kolarmale	15			
Mavinakodlu	2	....	..			
Someshwar	37	....	..			
New Someshwar	4	....	..	Approximately Rs. 4,615.	*Nil.*	396
Hurabe	1	....	..			
Kalangimale	9	....	..			
Karadka		....	..			
Mulliar	3	....	..			
Virakbamba	3	....	..			
Kadiamale	2	....	..			
Panamberi	1	....	..			
Nananjimale	2	....	..			
Porkal	7	....	..			
Kadimbilla	3	....	..			
Shiradi extension	1	....	..			
Shibaji	5	....	..			

† Below one square mile.

Statement showing the Progress made in, and the Expenditure

Name of forest district.	Area already settled at commencement of year.	Areas finally settled during the year.					
		Number and date of Government Order according final sanction to the settlement.	Name of forest settled.	Area.	Expenditure incurred during the year on areas finally settled.		Entire cost per square mile of areas finally settled during the year.
					In forest accounts.	In other accounts.	
1	2	3	4	5	6	7	8
							Southern
	SQ. MLS.			SQ. MLS.	RS. A. P.	RS.	RS.
South Canara —*cont.*	186	No. 243, dated 18th April 1899.	Surti Hola *	1	Approximately Rs. 1,251.	*Nil.*	Approximately Rs. 9.
		Do.	Jarkal Ane *	1			
		No. 319, dated 19th May 1899.	Mensinagudde *	1			
		No. 333, dated 26th May 1899.	Chingramale extension * ..	1			
		No. 320, dated 19th May 1899.	Menasinakan *	2			
		No. 370, dated 13th June 1899.	Jettukattumale *	2			
			Total ..	136	..	..	..
North Malabar.	157	No. 129, dated 18th February 1899.	Kanoth extension	2	51	..	..
			Total ..	2	51	..	25 8 0
South Malabar.	40	No. 605, dated 25th October 1898.	The new Amarampalam forest.	150	..	..	..
			Total ..	150	..	..	..
The Nilgiris.	358 (c)—1	No. 462, dated 18th August 1898.	Keraipadu				
		Do.	Mullimalai				
	357	No. 531, dated 17th September 1898.	Carrit Shola additions Nos. I II, III, IV and V.				
		No. 672, dated 14th November 1898.	Bellrumbuhalla				
		No. 146, dated 27th February 1899.	Arappillai				
		Do.	Sampangi	1	..	..	..
		Do.	Bikkemara				
		Do.	Neggilhada				
		No. 165, dated 6th March 1899.	Thogalhatti				
		Do.	Mokkai				
		Do.	Ochchukadavu				
		Do.	Konemara				
		Do.	Salemara				

* The reservation of these blocks takes effect in 1899-1900.

incurred on, Forest Settlements during 1898–99—*cont.*

Areas undergoing settlement.						
At commencement of the year.		Taken in hand during the year.		Expenditure incurred during the year on areas undergoing settlement.		Estimate of areas in which settlement operations have not yet commenced.
Name of tract.	Area.	Name of tract.	Area.	In forest accounts.	In other accounts.	
9	10	11	12	13	14	15
Circle—cont.						
	SQ. MLS.		SQ. MLS.	RS.	RS.	SQ. MLS.
Total ..	261		116	..	..	
Peria	21	....	..	2,881	..	6
Peria extension	2	....	..			
Padri	48	....	..			
Kanoth	40	....	..			
Total ..	111		..	2,881	..	
Nilambur Range.						
1 Nilambur block	† 18	....	..	..	..	37
2. Pokote						
3. Panangode						
4. Valluvasherri						
5. Kanakut						
6. Erambadam						
7. Ambalakandi						
8. Arimbrakuttamala ..						
9. Mangalasheriparamba ..						
10. Puthalath and Chittarikkalparamba.						
Amarampalam Range.						
11. Muriat						
12. Kariem						
PALGHAT RANGE.						
Attapady Valley.						
13. Block No. I	91	....	..	..	..	
14. Do. ,, II						
15. Do. ,, III						
16. Do. ,, IV						
Total ..	109		..	..	..	
Wenlock Downs	34	Doddahalla	3	..	..	8
Thumbarakadavu		Devalahalla				
Ullanni		Mudidevaramund				
Salada		Sundinulla No. II				
Arigodalu		Pagalamund				
Selakallu		Attekallu				
Bikkimalai		Kalhatti road No. I				
Rajbey		Do. ,, II				
Gathada		Vokkanshola				
Halakarai addition No. I ..		Dodabetta addition No. 1 ..				
Do. do. ,, II ..		Kodappamund				
Dolphin reserve addition ..		Cairn hill addition				
Ottupattarai		Red hill No. II				
Karimara		Curzon valley block No. I ..				
Black bridge addition ..		Do. do. ,, II ..				
Black Heath		Avaraihalla				
		Mavada reserve addition ..				
		Vagappanai addition No. I ..				
		Do. do. ,, II ..				
		Uradihalla				

† Notification cancelling the proposed reservation of the blocks under section 4 of the Forest Act appeared in the Gazette at the end of the year.

Statement showing the Progress made in, and the Expenditure

Name of forest district.	Area already settled at commencement of year.	Areas finally settled during the year.					
		Number and date of Government Order according final sanction to the settlement.	Name of forest settled.	Area.	Expenditure incurred during the year on areas finally settled.		Entire cost per square mile of areas finally settled during the year.
					In forest accounts.	In other accounts.	
1	2	3	4	5	6	7	8
							Southern
The Nilgiris —*cont.*	SQ. MLS. 358 (c)—1	....	....	SQ. MLS. ..	RS. A. P. ..	RS. ..	RS. A. P. ..
			Total ..	1	..	..	..
North Coimbatore.	1,056	No. 392, dated 15th July 1898.	Kanjikovil	5	2,384	..	476 12 9
		No. 391, dated 16th July 1898.	Pandiyanpalayam				
		No. 541, dated 20th September 1898.	Tambikalayan				
		No. 619, dated 27th October 1898.	Attavanai				
		No. 720, dated 28th November 1898.	Arachalur (plain)				
			Total ..	5	2,384	..	476 12 9
South Coimbatore.	654	No. 528, dated 17th Sept. 1898.	Sankararayapuram	96 acres.	..	..	..
Madura ..	572	No. 127, dated 18th February 1899.	Anagiri shola	73 acres.	..	..	..
			Total ..	73 acres.	..	..	..
Tinnevelly ..	413	No. 659, dated 8th November 1898.	Manpothai block	4	..	..	..
		No. 430, dated 2nd August 1898.	Gengaikondan block				
		No. 317, dated 19th May 1899.	Chintamani block*	1	..	..	..
			Total ..	5	..	..	..

* Reservation takes effect from 1899–1900.

incurred on, Forest Settlements during 1898-99—*cont.*

Areas undergoing settlement.				Expenditure incurred during the year on areas undergoing settlement.		Estimate of areas in which settlement operations have not yet commenced
At commencement of the year.		Taken in hand during the year.				
Name of tract.	Area.	Name of tract.	Area.	In forest accounts.	In other accounts.	
9	10	11	12	13	14	15
Circle—cont.						
	SQ. MLS.		SQ. MLS.	RS.	RS.	SQ. MLS.
		Temugai				
		Coonooralli block No. I ..				
		Do. do. ,, II ..				
		Cherambady reserve addition ..	3			
		Ammankovil addition No. I ..	2			
		Do. do. ,, II.	2			
		Rockwood	1			
Total ..	34		11	..	..	
Yedaralli	212	....	..	..	..	
Madeswaranmalai	246	....	..	..	..	
Cowdalli	25	....	..	..	..	74
Sennimalai	3	....	..	..	..	
Hanur	34	....	..	..	..	
Total ..	520		..	..	..	
Nallimalai	3	....	..	..	† 35	*Nil.*
Andipatti, south	8	....	..			
Kadavumalai	2	....	..			
Koviladi	1	....	..			*Nil.*
Umayar		....	..	2,383	..	
Sirumalai north-west slopes ..	9	....	..			
Thoppasamimalai	11	....	.			
Erukalamalai	6	....	..			
Total ..	37		..	2,383	..	
Vaippar	4	....	..	..	..	
Lands adjoining Srivilliputtúr ghaut forests, block I.	1					
Kahnsapuram		....	..	..	..	
Melavittan extension						..
....	..	Extension to Courtallam reserved forest No. III, blocks No. I, II and III.	6	..	† 37	
....	..	Extension to Krishnapuram reserved forest.				
Total ..	5		6	2,383	37	

† Compensation for lands acquired.

APPENDIX A.

Forest Settlement.

PARTICULARS of balance of Lands under Settlement.

District.	Total number and area of blocks brought under settlement up to end of 1898-99.		Total number and area of blocks constituted finally as reserved forests up to end of 1898-99.		Balance at end of 1898-99.	
	Number.	Area.	Number.	Area.	Number.	Area.
1	2	3	4	5	6	7
Northern Circle.		SQ. MLS.		SQ. MLS.		SQ. MLS.
Ganjám	44 (a) + 1	563 (a) — 24 (d) — 1	32	421 (a) — 6	13	123
Vizagapatam	51 (b) — 1	320 (b) — 51 (d) — 5	41	142	9	122
Gódávari	1	970 (d) — 14	73	866	8	90
Kistna	190	914 (a) + 2 (d) — 12	141	747 (a) + 1	49	156
Kurnool	62	2,454 (d) — 12	45	2,004	17	438
Bellary	135	523 (a) + 6 (d) — 3	115	470 (a) + 6	20	50
Anantapur	75	512 (d) — 5	74	500	1	7
Total, Northern Circle	638 (a) + 1 (b) — 1	6,256 (a) — 16 (b) — 51 (d) — 52	521	5,150 (a) + 1	117	986
Central Circle.						
Cuddapah	189 (a) + 3 (b) — 2	2,413 (a) — 2 (b) — 10	157	1,855	33	546
Nellore	176 (b) — 1	707 (b) — 4 (d) — 9	154	652	21	42
Chingleput	199	215	192	210	7	5
North Arcot	192	1,129 (a) + 106	142	1,071 (a) + 98	50	66
South Arcot	158 (b) — 1	711 (b) — 2	150	685	7	24
Salem	157	1,358 (e) — 1	143	1,237	14	120
Trichinopoly	135 (b) — 1	326 (b) — 3 (d) — 1 (e) + 1	79	216	55	107
Tanjore	15	18	15	18	..	..
Total, Central Circle	1,221 (a) + 3 (b) — 5	6,877 (a) + 104 (b) — 19 (d) — 10	1,032	5,944 (a) + 98	187	910
Southern Circle.						
South Canara	103 (b) — 1	705 (b) — 1 (d) — 5	60	284	42	415
North Malabar	23 (b) — 1	272 (b) — 2	18	159	4	111
South Malabar	27	299	11	190	16	109
The Nilgiris	301	404 (c) — 1	258	359 (c) — 1	43	45
North Coimbatore	41	1,582 (e) — 1	36	1,061	5	520
South Coimbatore	18	657	17	654	1	3
Madura	149 (b) — 1	613 (d) — 4	141	572	7	37
Tinnevelly	58 (a) + 1 (b) — 3	430 (b) — 2 (e) + 1	47	417	9	12
Total, Southern Circle	720 (a) + 1 (b) — 6	4,962 (b) — 5 (c) — 1 (d) — 9	588	3,696 (c) — 1	127	1,252
Grand Total	2,579 (a) + 5 (b) — 12	18,095. (a) + 88 (b) — 75 (c) — 1 (d) — 71	2,141	14,790 (a) + 99 (c) — 1	431	3,148

(a) Rectification. (b) Initial notifications cancelled. (c) Disafforested.
(d) Excluded at settlement. (e) By rounding off fractions in previous year's figures.

Appendix A—*cont.*

Forest Settlement—cont.

Particulars of balance of Lands under Settlement—*cont.*

District.	Classification of balance in columns 6 and 7.											
	Settled and reported on.								Settled but not reported on.		Settlement proceeding.	
	Notified under section 16 during 1898-99, but reservation effected only after 30th June 1899.		With Board or Government awaiting publication of notification under section 16.		Returned by the Board for revision and remaining either with Collector, District Forest-officer or Forest Settlement-officer.		Total settled and reported on.					
	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.
	8	9	10	11	12	13	14	15	16	17	18	19
Northern Circle.		SQ. MLS.		SQ. MLS.		SQ. MLS.		SQ. MLS.		SQ. MLS.		SQ. MLS.
Ganjám	4	13	3	59	1	1	8	73	5	50	..	..
Vizagapatam	..	..	1	73	..	..	1	73	3	21	5	28
Gódávari	1	30	2	35	..	..	3	65	4	22	1	3
Kistna	1	3	5	7	3	8	9	18	11	42	29	96
Kurnool	..	..	2	20	3	63	5	83	1	1	11	354
Bellary	1	1	6	13	..	..	7	14	..	..	13	36
Anantapur	* 1	7	..	..	..	..	1	7	..	..	..	..
Total, Northern Circle.	8	54	19	207	7	72	34	333	24	136	59	517
Central Circle.												
Cuddapah	3	18	5	39	1	68	9	125	..	..	24	421
Nellore	..	..	..	..	..	..	..	..	3	6	18	36
Chingleput	1	1	..	..	..	..	1	1	4	2	2	2
North Arcot	..	..	1	3	1	11	2	14	10	† 11	38	41
South Arcot	..	..	..	..	1	12	1	12	5	12	1	‡ ..
Salem	1	6	1	9	5	42	7	57	2	9	5	54
Trichinopoly	..	..	12	16	1	1	13	17	..	..	42	90
Tanjore	..	..	..	..	..	..	..	..	..	..	..	..
Total, Central Circle.	5	25	19	67	9	134	33	226	24	40	130	644
Southern Circle.												
South Canara	7	38	8	154	2	7	17	199	3	23	22	193
North Malabar ..	..	..	..	..	1	2	1	2	..	..	3	109
South Malabar ..	..	..	..	..	..	..	..	..	..	..	§ 12	18
											4	91
The Nilgiris	..	..	1	33	..	..	1	33	..	..	42	12
North Coimbatore ..	..	..	1	34	2	237	3	271	1	3	1	246
South Coimbatore ..	..	..	..	..	..	..	..	..	1	3	..	..
Madura	..	..	..	..	1	8	1	8	2	15	4	14
Tinnevelly	1	1	1	‡ ..	..	..	2	1	2	1	5	10
Total, Southern Circle.	8	39	11	221	6	254	25	514	9	45	93	693
Grand Total, Presidency.	21	118	49	495	22	460	92	1,073	57	221	282	1,854

* Notified during 1897-98 but taking effect in 1899-1900.
† The area of nine blocks is not shown in this column being very much below one square mile.
‡ Below one square mile.
§ Nilambur blocks, the notification for the cancelment of which appeared in the Gazette at the close of the year.

APPENDIX A—*cont.*

Forest Settlement—cont.

Particulars of balance of Lands under Settlement—*cont.*

District.	Of lands notified under section 4 in the year.																									
	1884-85.		1885-86.		1887-88.		1888-89.		1889-90.		1890-91.		1891-92.		1892-93.		1893-94.		1894-95.		1895-96.		1896-97.		1897-98.		1898-99.	
	Number.	Area.	Number	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.
	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
Northern Circle.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.
Ganjám ..	4	94	*4	22	..	..	..	..	..	..	..	..	1	2	4	†5	..	..	..	..	..	..	..	..	..	..	..	..
Vizagapatam ..	..	..	..	..	..	..	..	..	..	..	..	..	2	†37	1	73	..	..	2	‡..	..	..	..	..	3	4	1	8
Gódávarí ..	..	..	..	.	..	..	..	..	4	68	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	22	1	‡..
Kistna	..	..	..	..	..	..	..	..	2	8	..	..	1	13	1	‡..	..	..	1	10	..	..	11	27	25	77	8	21
Kurnool ..	..	..	..	..	..	..	..	..	..	..	..	..	2	31	..	..	..	..	1	69	..	..	3	70	7	†209	4	59
Bellary	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	5	6	11	3	4	10	30
Anantapur ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	§ 1	7	..	..	..	..	..	..
Total ..	4	94	4	22	..	..	..	..	6	76	..	..	6	83	6	78	..	..	4	79	2	12	20	108	41	316	24	118
Central Circle.																												
Cuddapah ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	68	..	..	6	158	4	132	4	17	7	66	‖11	105
Nellore	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	2	..	..	19	40
Chingleput ..	..	..	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..	..	6	4	..	..
North Arcot ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	†22	2	18	3	25	..	..	43	1
South Arcot ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	12	..	..	..	..	1	9	5	3	..	..	..	..
Salem	..	..	..	..	..	..	..	..	1	†3	..	..	..	..	..	..	1	6	3	15	3	52	..	..	2	9	4	35
Trichinopoly ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	31	51	..	..	24	56
Tanjore ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total ..	..	..	..	..	..	..	..	..	1	3	..	..	..	..	2	80	1	6	11	195	11.	212	45	98	15	79	101	237
Southern Circle.																												
South Canara ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7	6	7	189	4	63	9	22	5	19	10	116
North Malabar ..	2	69	1	40	..	..	..	..	..	..	..	..	..	..	..	..	1	2	..	..	..	..	..	..	..	..	..	..
South Malabar ..	..	..	..	..	12	†18	4	91	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
The Nilgiris ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	16	34	27	11
North Coimbatore ..	..	..	..	..	..	..	..	..	..	..	2	458	..	..	..	..	1	34	1	3	..	..	1	25	..	..	..	..
South Coimbatore ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	3	..	..	..	..	..	..
Madura	..	..	..	..	..	..	..	..	..	..	..	..	7	37	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tinnevelly ..		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	5	..	..	3	1	4	¶6
Total ..	2	69	1	40	12	18	4	91	..	..	2	458	7	37	..	..	9	42	8	192	7	71	10	47	24	54	41	133
Grand Total ..	6	163	5	62	12	18	4	91	7	79	2	458	13	120	8	158	10	48	23	466	20	295	75	253	80	449	166	488

* By division of block. † By rectification or exclusion at settlement or rounding off fractions. ‡ Below one square mile.

§ Notified during 1897-98 but reservation taking effect after 1898-99.

‖ Twelve blocks were notified under section 4 during the year, but one of them of three square miles was notified also under section 16 within the year.

¶ Excludes two square miles added to Vaippar.

Appendix B.

Causes of delay in the submission of final Notifications of Forest Reserves.

Districts.	Causes of delay.														
	Notified under section 16 during 1898–99, but with effect only after 30th June 1899.	With Board or Government awaiting publication of notification under section 16.	Pending preparation of maps.	Awaiting disposal of appeals.	Awaiting expiry of time prescribed for appeal.	Only recently notified or re-notified under section 4.	Awaiting payment of compensation or aquisition or exchange of lands.	Awaiting settlement of claims under enquiry.	Awaiting District Forest-officers' answers to claims, demarcation, &c.	Settled, but final report pending with the Collector or Forest Settlement-officer.	Pending with the Collector or Forest Settlement-officer for revision of notification.	Awaiting replies to references made to Collector or Board.	Awaiting inspection by the Forest Settlement-officer.	Other causes, *i.e.*, awaiting information from Tahsildars, return of records from the District Court, &c.	Total.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Ganjám	4	3	..	..	2	..	..	..	1	2	1	..	..	..	13
Vizagapatam	..	1	..	..	..	1	1	3	..	3	..	..	..	..	9
Gódávari	1	2	..	..	..	..	1	..	..	4	..	..	..	..	8
Kistna	1	5	4	4	2	3	5	1	..	10	3	..	4	7	49
Kurnool	..	2	..	..	..	1	..	2	1	1	3	1	3	3	17
Bellary	1	6	..	..	..	..	..	..	1	..	..	..	12	..	20
Anantapur	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1
Cuddapah	3	5	..	..	1	1	..	6	8	..	1	1	7	..	33
Nellore	..	..	..	..	..	3	..	..	..	3	..	..	14	1	21
Chingleput	1	..	..	..	..	..	1	..	1	4	..	..	..	..	7
North Arcot	..	1	..	..	..	..	..	26	11	10	1	..	..	1	50
South Arcot	..	..	..	..	..	..	..	..	..	5	1	..	..	1	7
Salem	1	1	..	..	..	4	..	..	1	2	5	..	..	..	14
Trichinopoly	..	12	..	1	..	23	2	10	1	..	1	..	..	5	55
Tanjore	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
South Canara	7	8	2	2	3	1	..	..	3	2	2	..	9	3	42
North Malabar	..	..	3	..	..	..	..	..	..	..	1	..	..	..	4
South Malabar	..	..	..	..	..	..	..	..	..	..	..	..	4	12	16
The Nilgiris	..	1	..	..	..	..	..	..	..	..	..	..	42	..	43
North Coimbatore	..	1	..	..	..	..	..	..	..	1	2	..	..	1	5
South Coimbatore	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1
Madura	..	..	..	..	1	..	..	..	1	2	1	..	..	2	7
Tinnevelly	1	1	..	..	..	..	..	1	..	2	..	..	4	..	9
Total ..	21	49	9	7	9	37	10	49	29	52	22	2	99	36	431

APPENDIX C.

RESERVED Lands not under Settlement in square miles.

Districts.	Up to 1897-98.	Added during 1897-98.	Added during 1898-99.	Total.	Transferred for settlement.				Balance remaining "reserved lands" not under settlement.
					Up to 1897-98.	During 1897-98.	During 1898-99.	Total.	
1	2	3	4	5	6	7	8	9	10
Northern Circle.									
Ganjám	556	(a) + 12 (b) — 5	(a) — 18 (b) — 1 (d) — 6	538	551 (b) — 1 (d) — 6	(a) + 12	(a) — 18	538	..
Vizagapatam ..	415	1 (c) — 3	(b) — 5 (c) — 54	354	304 (b) — 5 (c) — 51	8	8	264	90
Gódávari	953	22 (a) — 2 (b) — 3	(b) — 14	956	948 (b) — 14	22	..	956	..
Kistna	1,164	10 (a) + 3 (b) — 2 (c) — 13	(a) + 2 (b) — 12 (c) — 9 (d) + 1	1,144	793 (b) — 12 (d) + 1	98 (a) + 2	21 (a) + 1	904	240
Kurnool	2,331	352 (b) — 4 (c) — 9	242 (b) — 12	2,900	2,184 (b) — 12	211	59	2,442	458
Bellary	626	(a) — 8 (c) — 2 (e) — 1	27 (b) — 3 (c) — 34 (d) + 6	611	490 (b) — 3 (d) + 6	4 (a) — 1	30	526	85
Anantapur.. ..	514	(b) — 1 (c) — 1	(b) — 5	507	512 (b) — 5	..	..	507	..
Total ..	6,559	346	105	7,010	5,680	356	118 (a) — 17	6,137	873
Central Circle.									
Cuddapah	2,360	49 (a) + 9 (c) — 18	65 (a) — 2 (c) — 10	2,453	2,209 (c) — 10	96	108 (a) — 2	2,401	52
Nellore	683	(b) — 3	40 (b) — 9 (c) — 4 (e) + 1	708	667 (b) — 9 (c) — 4	..	40	694	14
Chingleput ..	213	12 (b) — 1 (c) — 9	..	215	202	13	..	215	..
North Arcot ..	1,134	(b) — 2 (c) — 3	1 (a) + 8 (d) + 98	1,236	1,128 (d) + 98	..	1 (a) + 8	1,235	1
South Arcot ..	715	(b) — 3 (c) — 1	(c) — 2	709	711 (c) — 2	..	..	709	..
Salem	1,439	(c) — 41 (d) — 2	30 (c) — 3	1,423	1,314 (e) — 1	9	35	1,357	66
Trichinopoly ..	297	(a) — 3 (c) — 16	49 (b) — 1 (c) — 3	323	270 (b) — 1 (c) — 3 (e) + 1	..	56	323	..
Tanjore	18	..	..	18	18	..	..	18	..
Total ..	6,859	— 32	258	7,085	6,588	118	240 (a) + 6	6,952	133
Southern Circle.									
South Canara ..	1,109	(c) — 11 (d) + 25	(a) — 2 (b) — 5 (c) — 21	1,095	570 (b) — 5 (c) — 1	19	116	699	396
North Malabar ..	274	..	(c) — 2	272	272 (c) — 2	..	..	270	2
South Malabar ..	328	..	..	328	299	..	..	299	29
The Nilgiris ..	450	34 (c) — 1	11 (c) — 3	491	359 (c) — 1	34	11	403	88
North Coimbatore.	1,623	(b) — 2 (c) — 3 (e) + 1	(e) — 1	1,618	1,582 (e) — 1	..	..	1,581	37
South Coimbatore .	657	..	..	657	657	..	..	657	..
Madura	621	(a) — 2 (b) — 1 (c) — 5	(b) — 4	609	604 (b) — 4	(a) + 9	..	609	..
Tinnevelly ..	427	1 (b) — 2 (c) — 2	6 (c) — 2 (e) + 1	429	421 (c) — 2 (e) + 1	1	8	429	..
Total ..	5,489	32	— 22	5,499	4,749	63	135	4,947	552
Grand Total ..	18,907	346	341	19,594	17,017	537	493 (a) — 11	18,036	1,558

(a) By rectification. (b) At settlement. (c) Unreserved or disafforested.
(d) By rectification of areas already constituted reserved forests.
(e) By rounding off fractions in previous year's returns.

Annual Form No. 46.

Forest Department, Madras Presidency.

Record of Demarcation and Maintenance of Boundaries.

District.	Length of boundaries artificially demarcated during the year.	Length of previously existing boundaries repaired during the year.	Length of previously existing boundaries not repaired during the year.	Total length of artificially marked boundaries at the close of the year.	Length of boundaries still to be demarcated at close of year.	Length of natural boundaries not requiring artificial marks.	Total length of boundaries at the close of the year.	Expenditure on demarcation during the year.	
								On new work.	On repairs.
1	2	3	4	5	6	7	8	9	10
Northern Circle.	MILES.	MILES.	MILES.	MILES.	MILES.	MILES.	MILES.	RS.	RS.
Ganjám	130	108	633	871	160	138	1,169	(a)1,400	176
Vizagapatam	91	100	94	285	215	Not known	500	1,443	325 (b) 792
Gódávari	55	395	433	883	114	308	1,305	572	(b) 508 (c) 115
Kistna	90	30	827	947	70	..	1,017	(a)1,424	229
Kurnool	60	574	..	634	646	157	1,487	1,370	185 (d) 1,178
Bellary	150	490	735	1,375	10	..	1,385	1,147	(a) 1,833 (b)
Anantapur	102	..	1,061	1,163	54	..	1,217	529	73
Total, Northern Circle ..	678	1,697	3,783	6,158	1,269	603	8,030	7,885	5,414
Central Circle.									
Cuddapah	(e) 193	(f) 80	2,424	2,697	14	..	2,711	1,349	366
Nellore	28	9	1,294	1,331	206	86	1,623	(a) 275	23 (g) 53
Chingleput	34	..	829	863	..	..	863	(a) 849	(k) 117 (b) 478
North Arcot	(h) 62	1,777	387	2,226	29	19	2,274	656	146
South Arcot	277	3	1,783	2,063	200	..	2,263	3,678	17
Salem	43	877	1,204	2,124	333	93	2,550	243	522 (g) 32
Trichinopoly	..	129	416	545	490	..	1,035	..	85
Tanjore	..	..	79	79	..	..	79	..	1
Total, Central Circle ..	637	2,875	8,416	11,928	1,272	198	13,398	7,050	1,840
Southern Circle.									
South Canara	136	1	1,563	1,700	..	2	1,702	1,348	20 (g) 35
Malabar, North	..	134	304	438	..	2	440	..	1,358 (g) 66
Do. South	..	20	106	126	96	92	314	..	200
The Nilgiris	11	90	996	1,097	40	187	1,324	134	1,460 (g) 145
Coimbatore, North	68	111	556	735	36	201	972	854	446
Do. South	6	9	468	483	9	77	569	50	70 (i) 196
Madura	25	40	1,403	1,468	22	139	1,629	(a) 875	(a) 866
Tinnevelly	12	4	336	352	187	17	556	194	23
Total, Southern Circle ..	258	409	5,732	6,399	390	717	7,506	3,455	4,885
Grand Total, Presidency ..	1,573	4,981	17,931	24,485	2,931	1,518	28,934	18,390	12,139

N.B.—Boundaries include, besides the outer perimeter, the limits of enclosures of private or other lands within the forests, but not the limits of sub-divisions, such as blocks, compartments, coupes. The difference between the totals of columns 3 and 4 of this statement and column 5 of the previous year's statement, and the difference between column 7 and the corresponding column of previous year's statement are due to more correct computation of lengths and to the omission during the year of the boundaries of proposed reserves which were incorrectly included in the return for 1897-98 in some of the districts.

(*a*) Includes cost of cairns erected or repaired
(*b*) Cost of temporary establishment.
(*c*) Cost of demarcating the Rampa boundary.
(*d*) Amount spent in cutting 48 miles of block lines in the interior of reserves.
(*e*) Includes rectifying 42 miles of demarcation at a cost of Rs. 319.
(*f*) Excludes lines recleared by the establishment free of cost.
(*g*) Added as per Accountant-General's audited figures under A-VIII (*a*).
(*h*) Includes rectifying 41 miles of demarcation at a cost of Rs. 450.
(*i*) Amount spent for cutting compartment and coupe lines.
(*k*) Includes amount spent for cutting coupe lines.

ANNUAL FORM No. 47.

Forest Department, Madras Presidency.

STATEMENT of Forest Areas surveyed and under survey during the year 1898–99.

Districts.	Areas surveyed and under survey during the year 1898–99.															
	Special Surveys—Maps on 4-inch scale or over by Survey of India Department or Madras Survey.								Ordinary, included in district surveys.							
	With interior details.					Boundary surveys.			With interior details.					Boundary surveys.		
	With details of growing stock.		Without details of growing stock.		Total cost.	Previous.	Of year.	Total cost.	With details of growing stock.		Without details of growing stock.		Total cost.	Previous.	Of year.	Total cost.
	Previous.	Of year.	Previous.	Of year.					Previous.	Of year.	Previous.	Of year.				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	RS.	L. MLS.	L. MLS.	RS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	RS.	L. MLS.	L. MLS.	RS.
Ganjám *	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Vizagapatam	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gódávari	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kistna	..	..	..	..	..	92	..	194	18	..	330	..	216	225	63	2,384
Kurnool	..	..	387	301	56,214	546	336	..	..	..	..	..	..	..	..	..
Bellary	..	..	..	..	..	..	..	..	..	..	437	30	..	..	..	..
Anantapur	..	..	168	..	§ ..	..	..	..	..	..	188	..	..	..	..	..
Cuddapah †	..	..	..	247	19,300	219	121	10,527	..	..	..	..	..	..	..	..
Nellore ‡	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chingleput	..	..	..	..	..	..	..	..	..	..	..	115	587	..	..	..
North Arcot	..	..	1,073	..	§ ..	..	..	..	..	..	..	..	..	..	..	..
South „	..	..	229	10	9,162	82	..	..	..	..	..	..	..	..	..	..
Salem	..	..	1,217	2	33,103	..	..	..	..	..	..	..	..	..	..	..
Trichinopoly	..	..	66	..	25,000	8	..	..	..	..	78	..	..	..	..	..
Tanjore	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
South Canara	..	..	§ ..	..	..	..	..	..	..	..	§ ..	..	..	..	..	..
North Malabar	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
South „	6	..	33	..	168	..	..	..	..	..	1	..	..	..	..	..
The Nilgiris	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
North Coimbatore	..	..	300	417	§ ..	285	261	..	..	..	..	..	..	..	..	..
South „	..	..	652	..	..	..	..	..	..	..	2	..	..	..	..	..
Madura	..	..	572	..	..	..	..	..	..	..	..	..	..	..	..	..
Tinnevelly	..	..	410	..	§ ..	..	..	..	..	..	..	..	..	..	..	..
Total ..	6	..	5,107	977	1,42,947	1,232	718	10,721	18	..	1,036	145	803	225	63	2,384

N.B.—Due attention has not been paid in most of the districts to the instructions regarding the preparation of this form which is not therefore quite accurate.

* No entries have again been made by the Collector in the first 22 columns although it is stated in the district report that surveys are now approaching completion—*vide* Appendix E in which it is stated that all the reserves have been mapped.

† No entries have been made in the Collector's return in columns 9 to 30.

‡ All the columns except 24 have been left blank by the Collector.

§ Not known or reported.

Statement of Forest Areas surveyed and under survey during the year 1898–99—*cont.*

Districts.	Areas surveyed and under survey during the year 1898–99—*cont.*								Areas remaining to be taken under survey.	Total reserved forest area at end of year, as per Form No. 44.	Cost.		
	Chain and compass or other surveys by local officers.												
	With interior details.					Boundary surveys.					Previous.	Of year.	Entire cost of all surveys to end of the year.
	4-inch or over.		Under 4-inch.		Total cost.	Previous.	Of year.	Total cost.					
	Previous.	Of year.	Previous.	Of year.									
	18	19	20	21	22	23	24	25	26	27	28	29	30
	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	RS	L. MLS.	L. MLS.	RS.	SQ. MLS.	SQ. MLS.	RS.	RS.	RS.
Ganjám *	..	..	..	..	..	403	323	11,294	..	415	9,226	2,068	11,294
Vizagapatam	§ 14	..	..	..	§ ..	..	..	..	128	142	..	..	..
Gódávari	‖ ..	..	..	..	..	93	51	1,215	866	866	..	1,215	1,215
Kistna	4	..	..	..	56	146	31	54	396	748	1,879	1,025	2,904
Kurnool	5	..	..	..	254	126	..	1,713	1,311	2,004	38,751	19,430	58,181
Bellary	..	..	..	..	..	..	..	..	9	476	..	496	496
Anantapur	144	..	..	..	¶ ..	..	..	..	..	500	..	..	..
Cuddapah †	..	..	..	..	..	..	..	..	..	1,855	10,527	19,300	29,827
Nellore ‡	..	..	..	..	..	..	3	..	..	652	..	..	..
Chingleput	..	..	..	..	..	..	..	..	95	210	..	587	587
North Arcot	96	..	..	..	¶ ..	..	..	..	..	1,169	..	..	..
South „	6	..	..	..	52	..	..	..	440	685	8,880	334	9,214
Salem	..	..	..	..	..	..	..	..	18	1,237	32,000	1,103	33,103
Trichinopoly	1	..	..	..	..	..	..	..	71	216	25,000	..	25,000
Tanjore	18	..	..	..	..	..	..	..	..	18	..	..	..
South Canara	¶ ..	..	¶ ..	..	..	..	..	..	¶ ..	284	..	..	..
North Malabar	..	..	..	..	..	37	..	728	159	159	728	..	728
South „	..	..	..	..	..	..	..	610	150	190	778	..	778
The Nilgiris	..	..	..	..	..	..	..	..	358	358	..	..	..
North Coimbatore ..	..	..	..	..	..	..	..	..	344	1,061	37,635	¶ ..	37,635
South „ ..	..	..	..	..	..	..	..	..	..	654	..	..	..
Madura	..	..	..	..	..	..	..	..	..	572	1,148	..	1,148
Tinnevelly	..	..	..	..	..	..	..	..	7	417	..	..	..
Total ..	288	..	..	..	362	805	408	15,614	4,352	14,888	1,66,552	45,558	2,12,110

N.B.—Due attention has not been paid in most of the districts to the instructions regarding the preparation of this form which does not pretend to be accurate.

* No entries have again been made by the Collector in the first 22 columns although it is stated in the district report that surveys are now approaching completion—*vide* Appendix E in which it is stated that all the reserves have been mapped.

† No entries have been made in the Collector's return in columns 9 to 30.

‡ All the columns except 24 have been left blank by the Collector.

§ The figures shown in these columns in the report for 1897–98 appertained also to proposed reserves. Hence the variation.

‖ The figure "93" erroneously entered in this column has been transferred to column 23, its proper place.

¶ Not known or reported.

Appendix D.

Abstract of District Reports in regard to the maintenance of maps in accordance with the provisions of section 81 of the Forest Code.

Northern Circle.

Ganjám.—Final maps were prepared for all reserved forests. The district and range reference maps have been maintained. Four district maps for the use of the District Forest-office and the other branches of the Collector's office were also prepared during the year.

Vizagapatam.—The district, range and reserve maps were maintained as usual.

Gódávari.—The district map (1″ = 4 miles) has been maintained; range maps and separate maps for each reserve are also kept.

Kistna.—Final maps for 18 blocks were printed during the year.

Kurnool.—All the maps prescribed in section 81 of the Forest Code except those for working circles were maintained during the year.

Bellary.—Instructions regarding the preparation of district, range and reserve maps were attended to.

Anantapur.—A fresh district key map was prepared and posted up to date. Final maps for some of the reserves were also prepared.

Central Circle.

Cuddapah.—The district and range maps prescribed in the Forest Code were maintained and posted up to date. Duplicate copies of reserve maps were prepared for issue to Range officers.

Nellore.—All the maps are kept up to date. Twenty-one final maps were prepared and supplied to Range officers during the year.

Chingleput.—The district and taluk maps have been maintained and posted up. Copies of 32 sketches of final maps have been made and supplied to Range officers.

North Arcot.—The district and taluk maps are kept up to date and a copy of the latter has been furnished to each Range officer. Maps received from the Survey of India Party were also distributed to Range officers. Maps of reserves, less than 10 square miles in area, are being prepared departmentally and Range officers are gradually being supplied with them.

South Arcot.—The district forest reference map has been maintained and posted up to date. The range and reserve maps have also been maintained; copies have been supplied to the Range officers.

Salem.—The district and range maps have been maintained. Maps for 74 reserves prepared by the Survey of India Party are available.

Trichinopoly.—The district and taluk maps were maintained and posted. The preparation of the map for the new Kulittalai Range, referred to in the last report, was completed during the year. The maps for the reserves in the Musiri and Perambalur ranges have not yet been received from the Survey of India Party.

Tanjore.—The district as well as the range reference, and Working plan maps are maintained. There are also separate maps for each reserve with topographical features and admitted rights indicated therein. The Vettangudi map which was not complete last year was finished during the year under report.

Southern Circle.

South Canara.—Forest maps for 18 blocks have been prepared during the year departmentally. Maps for all the reserved forests except Bhagimale are maintained.

North Malabar.—The district reference map has been posted up to 30th June 1899. Maps for some of the reserves have been sent to the Superintendent of Revenue Survey for taking litho copies.

South Malabar.—The district reference map has been posted up to 30th June 1899. Reserve and range reference maps were prepared during the year. There are also working circle maps for all areas for which working plans have been prepared.

Nilgiris.—The office reference map and the range reference maps have been posted up to date. There are no separate reserve maps, but settlement maps for each village in the district are properly maintained, all the reserves having been distinctly shown therein. Working circle maps are also maintained.

North Coimbatore.—The office reference map is maintained. The topographical sheets are used as range reference maps and are being posted. Maps have been prepared for 4 reserves in Erode taluk and are under preparation for 19 others. In the remaining cases the settlement map and the topographical sheets have been supplied to Range officers to be used as reserve maps until the survey is completed.

South Coimbatore.—The district forest reference Map has been maintained in duplicate The taluk maps have been utilized for range reference maps and most of the particulars relating to 5 ranges have been entered. There are Survey of India maps for all reserves but some details have to be entered. There are separate maps for each of the working circles.

Madura.—The six reserve maps referred to in the previous year's report were sent to the Survey office for reproduction and have not yet been received. Maps for two blocks constituted as reserves during the year have to be fair copied and sent to the Survey office for reproduction.

Tinnevelly.—The district reference map has been posted up to 30th June 1899. The Range officers are supplied with the India Survey maps of the existing reserves. Taluk maps in which the reserves have been incorporated have also been furnished to them.

APPENDIX E.

STATEMENT showing Area of Reserved Forests for which final Maps have been prepared.

Districts.	Area of reserved forests.	Area of reserved forests for which final maps have been prepared.
	SQ. MILES.	SQ. MILES.
Ganjám	415	415
Vizagapatam	142	(a) 14
Gódávari	866	93
Kistna	748	537
Kurnool	2,004	..
Bellary	476	325
Anantapur	500	431
Cuddapah	1,855	1,789
Nellore	652	600
Chingleput	210	(b) 210
North Arcot	1,169	(c) 512
South Arcot	685	685
Salem	1,237	904
Trichinopoly	216	49
Tanjore	18	18
South Canara	284	269
North Malabar	159	1
South Malabar	190	40
The Nilgiris	358	..
North Coimbatore	1,061	(d) 5
South Coimbatore	654	654
Madura	572	560
Tinnevelly	417	407
Total ..	14,888	8,518

(a) The only reserve in the district which has a surveyed map with interior details is the Peddapalem reserve. The mapping of the other reserves is reported to await the survey of the reserves by the Survey of India Party.

(b) These are only copies of maps attached to the final notifications, but are, however, only approximately correct wherever the boundaries go through unsurveyed areas.

(c) Revised figure ; of this area, maps for 17 square miles were made by the Madras Survey office and for the remaining 495 square miles by the Survey of India Party.

(d) No explanation has been furnished by the Collector for the variation between this figure and that entered in Appendix E to the report for 1897–98.

Annual Form No. 48.

Forest Department, Madras Presidency.

Progress made in Working Plans during 1898–99.

District.	Areas for which working plans have been completed and approved by the Board.		Areas for which working plans are being compiled or have been compiled but not sanctioned.		Areas for which working plans have still to be taken in hand.	Total forest area as in Form No. 44.	Entire cost per square mile of working plans completed.	* Remarks.
	At commencement of year.	During year.	At commencement of year.	Taken in hand during year.				
1	2	3	4	5	6	7	8	9
Northern Circle.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	RS.	RS.
Ganjám	..	..	..	21	517	538	..	38
Vizagapatam	..	..	..	..	354	354	..	..
Gódávari	..	† 3	‡ 22	138	793	956	..	37
Kistna	8	..	768	..	368	1,144	..	3
Kurnool	..	..	..	..	2,900	2,900	..	36
Bellary	12	..	..	..	599	611	..	..
Anantapur	..	..	1	..	506	507	..	..
Total ..	20	3	791	159	6,037	7,010	..	114
Central Circle.								
Cuddapah	3	..	..	..	2,450	2,453	..	5
Nellore	..	..	134	40	534	708	..	249
Chingleput	..	..	..	..	215	215	..	..
North Arcot	..	..	..	..	1,236	1,236	..	..
South Arcot	..	..	99	..	610	709	..	386
Salem	1	..	..	..	1,422	1,423	..	52
Trichinopoly	1	..	33	..	289	323	..	136
Tanjore	4	..	4	..	10	18	..	..
Total ..	9	..	270	40	6,766	7,085	..	778
Southern Circle.								
South Canara	1	..	..	..	1,094	1,095	..	..
North Malabar	..	..	..	28	244	272	..	110
South Malabar	34	..	24	..	270	328	99	55
The Nilgiris	6	..	..	..	485	491	83	..
North Coimbatore ..	..	..	..	..	1,618	1,618	..	..
South Coimbatore ..	10	..	7	..	640	657	..	..
Madura	..	..	12	240	357	609	..	..
Tinnevelly	56	..	..	..	373	429	49	1,006
Total ..	107	..	43	268	5,081	5,499	..	1,171
Grand Total ..	136	3	1,104	467	17,884	19,594	..	2,063

* The figures in this column represent the cost incurred during the year under A-VIII (*d*).
† Preliminary working plans.
‡ Upputteru reserve, the working plan for which was brought up to date during the year.

ANNUAL

Forest Department,

Communications

District.	New work undertaken during the year.					
	Buildings.		Roads and paths.			Total expenditure on new work.
	Description of building.	Expenditure incurred.	Road or path and object of the same.	Length of road or path.	Expenditure incurred.	
1	2	3	4	5	6	7
						Northern
Direction ..	....	RS. ..	....	MLS. F. ..	RS. ..	RS. ..
Ganjám ..	(c) Houses for subordinate establishments	96	....	..	..	
	Total, Ganjám ..	96	Total ..	..	..	96
Vizagapatam.	(b) Rest-houses	100	(a) Cart roads	2 6	243	..
	(c) Houses for subordinate establishments	255				
	(d) Others	202				
	Total, Vizagapatam ...	557	Total ..	2 6	243	800
Gódávari ..	(b) Rest-houses	1,413	(a) Cart roads	11 0	2,836	..
	(c) Houses for subordinate establishments	122	(b) Bridle-paths	14 3	252	..
	(d) Others	332				
	Total, Gódávari ..	1,867	Total ..	25 3	3,088	4,955
Kistna ..	(b) Rest-houses	63	(a) Cart roads	2 6	4,302	..
	Total, Kistna ..	63	Total ..	2 6	4,302	4,365
Kurnool ..	(b) Rest-houses	1,459				
	(c) Houses for subordinate establishments	328	(a) Cart roads	14 0	1,704	..
			(c) Others	..	* 786	..
	Total, Kurnool ..	1,787	Total ..	..	2,490	4,277
Bellary ..	(b) Rest-houses	755	(b) Bridle-paths	15 0	936	..
	(c) Houses for subordinate establishments	74				
	Total, Bellary ..	829	Total ..	15 0	936	1,765
Anantapur ..	(b) Rest-houses	1,096	(b) Bridle-paths	3 2	88	..
	Total, Anantapur ..	1,096	Total ..	3 2	88	1,184
Total Northern Circle.	(b) Rest-houses	4,886	(a) Cart roads	30 4	9,085	..
	(c) Houses for subordinate establishments	875	(b) Bridle-paths	32 5	1,276	..
	(d) Others	534	(c) Others	..	786	..
	Total, Northern Circle ..	6,295	Total ..	63 1	11,147	17,442

* Rupees 281 have been deducted from the Collector's figures to make them agree with the Accountant-General's audited figures under A VII (a). The Collector has not clearly explained the variation.

FORM No. 49.

Madras Presidency.

and Buildings.

Repairs executed during the year.					
Buildings.		Roads and paths.			Total expended on repairs.
Nature of repairs.	Expenditure incurred.	Nature of repairs.	Length repaired.	Expenditure incurred.	
8	9	10	11	12	13
Circle.					
	RS.		MLS. FR.	RS.	RS.
(*a*) Head-quarter houses	60	(*c*) Others	..	49	10
(*c*) Houses for subordinate establishments	1,313	(*a*) Cart roads	1 0	46	..
		(*b*) Bridle-paths	74 0	342	..
			75 0	388	1,701
		Add A-VII (*c*) ..	..	..	33
Total ..	† 1,313	Total ..	..	..	1,734
(*b*) Rest-houses	215				
(*c*) Houses for subordinate establishments	273	(*a*) Cart roads	7 0	125	..
(*d*) Others	142	(*c*) Others	..	25	..
			7 0	150	780
		Add A-VII (*c*) ..	..	..	305
Total ..	630	Total ..	..	..	1,085
(*b*) Rest-houses	764	(*a*) Cart roads	33 0	808	..
(*c*) Houses for subordinate establishments	92	(*b*) Bridle-paths	25 0	156	..
(*d*) Others	141				
	997		58 0	964	3,276
Add pay of watchers ..	1,315	Add A-VII (*c*) ..	..	..	500
Total ..	2,312	Total ..	..	..	3,776
(*b*) Rest-houses	297	(*a*) Cart roads	19 4	234	..
(*c*) Houses for subordinate establishments	11		19 4	234	582
(*d*) Others	‡ 40	Add A-VII (*c*) ..	..	..	3
Total ..	348	Total ..	..	..	585
(*a*) Head-quarter houses	61	(*a*) Cart roads	16	916	..
(*b*) Rest-houses	1,747	(*c*) Others	..	36	..
(*c*) Houses for subordinate establishments	457				
(*d*) Others	52				
	§ 278				
	2,595		16	952	4,033
Add pay of watchers ..	486	Add A-VII (*c*) ..	..	..	160
Total ..	3,081	Total ..	..	..	4,193
(*c*) Houses for subordinate establishments	82	(*a*) Cart roads			
		(*b*) Bridle-paths	12 6	373	..
			29 2	285	..
Total ..	82	Total ..	42 0	658	740
(*a*) Head-quarter houses	144	(*b*) Bridle-paths	10 7	195	..
(*b*) Rest-houses	97				
(*c*) Houses for subordinate establishments	60				
(*d*) Others	42				
	343				
Add pay of watchers ..	599				
Total ..	942	Total ..	10 7	195	1,137
(*a*) Head-quarter houses	265	(*a*) Cart roads	89 2	2,502	..
(*b*) Rest-houses	3,120	(*b*) Bridle-paths	139 1	978	..
(*c*) Houses for subordinate establishments	2,268	(*c*) Others	..	110	..
(*d*) Others	695				
	6,368		228 3	3,590	12,358
Add pay of watchers ..	2,400	Add A-VII (*c*) ..	.	...	1,001
Total ..	8,768	Total ..	..	..	13,359

† Includes pay of watchers.

‡ Rupees 22 have been deducted from the Collector's figures in order to make them agree with the Accountant-General's audited figures under A-VII (*b*). The variation has not been explained by the Collector.

§ Added as per Accountant-General's audited figures under A-VII (*b*).

District.	New work undertaken during the year.					Total expenditure on new work.
	Buildings.		Roads and paths.			
	Description of building.	Expenditure incurred.	Road or path and object of the same.	Length of road or path.	Expenditure incurred.	
1	2	3	4	5	6	7
						Central
		RS.		MLS. F.	RS.	RS.
Cuddapah ..	(*c*) Houses for subordinate establishments	645	(*a*) Cart roads	7 0	186	..
	Total, Cuddapah ..	* 645	Total ..	7 0	186	831
Nellore ..	....	..	....	..	..	..
	Total, Nellore ..	..	Total ..	..	..	..
Chingleput ..	(*b*) Rest-houses		(*a*) Cart roads	2 4	83	..
	(*c*) Houses for subordinate establishments	12 25				
	Total, Chingleput ..	37	Total ..	2 4	83	120
North Arcot ..	(*b*) Rest-houses	950	(*a*) Cart roads	2 1	1,792	..
	(*d*) Others	40	(*c*) Others	..	9	..
	Total, North Arcot ..	990	Total ..	2 1	1,801	2,791
South Arcot ..	....	..	....	..	..	..
	Total, South Arcot ..	..	Total ..	..	..	..
Salem ..	(*a*) Head-quarter houses ..	197	(*a*) Cart roads	* ..	1,194	..
	(*b*) Rest-houses	451				
	(*c*) Houses for subordinate establishments	266				
	(*d*) Others	99				
	Total, Salem ..	1,013	Total ..	..	1,194	2,207
Trichinopoly ..	....	..	....	..	..	..
Tanjore ..	(*c*) Houses for subordinate establishments	14	....	..	..	14
Total, Central Circle.	(*a*) Head-quarter houses ..	197	(*a*) Cart roads	11 5	3,255	..
	(*b*) Rest-houses	1,413	(*c*) Others	..	9	..
	(*c*) Houses for subordinate establishments	950				..
	(*d*) Others	139				
	Total, Central Circle ..	2,699	Total ..	11 5	3,264	5,963

* Length not reported.

† Three and a half miles repaired by watchers without cost.

‡ The Collector explains that a sum of Rs. 148 was transferred to A I (*a*) under the Conservator's sanction order No. 1414, dated 21st June 1899, and that the transfer was intimated to the Accountant-General in reply to his objection statement for March 1899. Nevertheless the Accountant-General has allowed the item to stand under this head. Hence the difference.

and Buildings—*cont.*

Repairs executed during the year.					
Buildings.		Roads and paths.			Total expended on repairs.
Nature of repairs.	Expenditure incurred.	Nature of repairs.	Length repaired.	Expenditure incurred.	
8	9	10	11	12	13
Circle.					
	Rs.		Mls. F.	Rs.	Rs.
(*b*) Rest-houses	532	(*a*) Cart roads	2 4	1,405	..
(*c*) Houses for subordinate establishments	390	(*b*) Bridle-paths	..	113	..
(*d*) Others	44	(*c*) Others	..	190	..
	966		2 4	1,708	2,930
Add pay of watchers ..	256	Add A-VII (*c*) ..	..	..	155
Total ..	1,222	Total ..	..	..	3,085
(*c*) Houses for subordinate establishments	1,038	....	..	..	1,111
Add pay of watchers ..	73				
Total ..	1,111	Total ..	..	..	1,111
(*b*) Rest-houses	202	....	..	..	208
(*c*) Houses for subordinate establishments	6				
		Add A-VII (*c*) ..	..	..	161
Total ..	208	Total ..	..	..	369
(*a*) Head-quarter houses	33	(*a*) Cart roads	† 11 5	418	..
(*b*) Rest-houses	{ 841 ‡ 147				
(*c*) Houses for subordinate establishments	92				
	1,113		11 5	418	2,263
Add pay of watchers ..	732	Add A-VII (*c*) ..	..	..	235
Total ..	1,845	Total ..	..	..	2,498
(*b*) Rest-houses	21	(*a*) Cart roads	..	283	..
(*c*) Houses for subordinate establishments	78				
	99		..	283	714
Add pay of watchers ..	332	Add A-VII (*c*) ..	..	..	4
Total ..	431	Total ..	..	..	718
(*a*) Head-quarter houses	159	....	..	..	1,076
(*b*) Rest-houses	439				
(*c*) Houses for subordinate establishments	§ 409				
(*d*) Others	69	Add A-VII (*c*) ..	..	..	34
Total ..	1,076	Total ..	..	..	1,110
(*b*) Rest-houses	103	(*c*) Others	..	‖ 40	143
(*b*) Rest-houses	4	....	..	..	4
(*a*) Head-quarter houses	192	(*a*) Cart roads	14 1	2,106	..
(*b*) Rest-houses	2,289	(*b*) Bridle-paths	..	113	..
(*c*) Houses for subordinate establishments	2,013	(*c*) Others	..	230	..
(*d*) Others	113				
	4,607		14 1	2,449	8,449
Add pay of watchers ..	1,393	Add A-VII (*c*) ..	..	..	589
Total ..	6,000	Total ..	..	..	9,038

§ Rupees 32 have been deducted from the Collector's figures to correspond with the Accountant-General's audited figures under Act VII-(*b*). The Collector has not explained the variation.

‖ The cost of maintaining and improving the Sogapuram-Sengathuppatti ghat road in the Musiri range has not been shown in this return as the Forest Department does the repairs and recovers the amount spent from the Local Fund Department at the end of each year.

Communications

District.	New work undertaken during the year.					Total expenditure on new work.
	Buildings.		Roads and paths.			
	Description of building.	Expenditure incurred.	Road or path and object of the same.	Length of road or path.	Expenditure incurred.	
1	2	3	4	5	6	7
						Southern
South Canara.	(*b*) Rest-houses	1,308	(*a*) Cart roads	MLS. F. 3 3	RS. 723	RS. ..
	Total, South Canara ..	1,308	Total ..	3 3	723	2,031
North Malabar.	(*b*) Rest-houses	2,049	....	..	..	..
	(*c*) Houses for subordinate establishments	160				
	(*d*) Others	650				
	Total, North Malabar ..	2,859	Total ..	..	..	2,859
South Malabar.	(*a*) Head-quarter houses ..	18	(*a*) Cart roads	4 0	480	...
	(*b*) Rest-houses	480	(*b*) Bridle-paths	..	13	..
	Total, South Malabar ..	498	Total ..	4 0	493	991
The Nilgiris ..	(*c*) Houses for subordinate establishments	62	(*a*) Cart roads	0 3	45	..
	Total, The Nilgiris ..	62	Total ..	0 3	45	107
North Coimbatore.	(*b*) Rest-houses	711	....	..	..	..
	(*c*) Houses for subordinate establishments	912				
	(*d*) Others	2,176				
	Total, North Coimbatore ..	3,799	Total ..	..	..	3,799
South Coimbatore.	(*b*) Rest-houses	762	(*c*) Others	..	99	..
	(*c*) Houses for subordinate establishments	1,379				
	(*d*) Others	1,745				
	Total, South Coimbatore ..	3,886	Total ..	..	99	3,985
Madura ..	(*b*) Rest-houses	1,534	....	..	..	..
	(*d*) Others	2				
	Total, Madura ..	1,536	Total ..	..	..	1,536

* Rupees 105 have been deducted from the Collector's figures to make them agree with the Accountant-General's audited figures under A-VII (*b*). The Collector has not explained the variation.

and Buildings—*cont.*

Repairs executed during the year.					
Buildings.		Roads and paths			Total expended on repairs.
Nature of repairs.	Expenditure incurred.	Nature of repairs.	Length repaired.	Expenditure incurred.	
8	9	10	11	12	13
Circle.					
	Rs.		MLS. F.	Rs.	Rs.
(*c*) Houses for subordinate establishments.	168	(*c*) Others	9 0	42	256
(*d*) Others	46				
		Add A-VII (*c*) ..	..	..	64
Total ..	214	Total ..	..	..	320
(*a*) Head-quarter houses	285	*a*) Cart roads	66 0	1,837	
(*b*) Rest-houses	373	*c*) Others	..	293	
(*c*) Houses for subordinate establishments	339				
(*d*) Others	511				
			66 0	2,130	3,638
		Add A-VII (*c*) ..	..	..	487
Total ..	1,508	Total ..	..	..	4,125
(*a*) Head-quarter houses	129	(*a*) Cart roads	4 6	215	
(*b*) Rest-houses	241				
(*c*) Houses for subordinate establishments	265				
(*d*) Others	60				
			4 6	215	910
		Add A-VII (*c*) ..	..	..	64
Total ..	695	Total ..	..	..	974
(*c*) Houses for subordinate establishments	878	(*c*) Cart roads	75 0	1,366	
			75 0	1,366	2,244
		Add A-VII (*c*) ..	..	..	157
Total ..	878	Total ..	..	..	2,401
(*b*) Rest-houses	551	(*a*) Cart roads	70 0	4,022	
(*c*) Houses for subordinate establishments.	307	(*c*) Others	..	28	
(*d*) Others	44				
	902		70 0	4,050	5,316
Add pay of watchers ..	364	Add A-VII (*c*) ..	..	..	1
Total ..	1,266	Total ..	..	..	5,317
(*b*) Rest-houses	263	(*a*) Cart roads	† 8 0	‡ 2,182	
(*c*) Houses for subordinate establishments	1,009	(*b*) Bridle-paths	2 0	35	
(*d*) Others	85	(*c*) Others	..	48	
			10 0	2,265	3,622
		Add A-VII (*c*) ..	..	..	2,465
Total ..	1,357	Total ..	..	..	6,087
(*b*) Rest-houses	427	(*b*) Bridle-paths	15 6	§ 409	..
(*c*) Houses for subordinate establishments	1,754				
	2,181		15 6	409	2,823
Add pay of watchers ..	233	Add A-VII (*c*) ..	..	..	324
Total ..	2,414	Total ..	..	..	3,147

† Includes repairs to tram line and timber slide.
‡ Includes Rs. 1,200 contribution for the upkeep of Anamalai Sethumadi road.
§ Includes pay of road watchers.

Districts.	New work undertaken during the year.					
	Buildings.		Roads and paths.			Total expenditure on new work.
	Description of building.	Expenditure incurred.	Road or path and object of the same.	Length of road or path.	Expenditure incurred.	
1	2	3	4	5	6	7
						Southern
		Rs.		Mls. F.	Rs.	Rs.
Tinnevelly ..	(*b*) Rest-houses	849	(*a*) Cart roads	2 5	613	
	(*c*) Houses for subordinate establishments	924	(*b*) Bridle-paths	7 0	1,820	
	(*d*) Others	90				
	Total, Tinnevelly ..	1,863	Total ..	9 5	2,433	4,296
Total, Southern Circle.	(*a*) Head-quarters	18	(*a*) Cart roads	10 3	1,861	
	(*b*) Rest-houses	7,693	(*b*) Bridle-paths	7 0	1,833	
	(*c*) Houses for subordinate establishments	3,437	(*c*) Others	..	99	
	(*d*) Others	4,663				
	Total, Southern Circle ..	15,811	Total ..	17 3	3,793	19,604
Grand Total, Presidency.	(*a*) Head-quarters	215	(*a*) Cart roads	52 4	14,201	
	(*b*) Rest-houses	13,992	(*b*) Bridle-paths	39 5	3,109	
	(*c*) Houses for subordinate establishments	5,262	(*c*) Others	..	894	
	(*d*) Others	5,336				
	Total, Presidency ..	24,805	Total ..	..	18,204	43,009

and Buildings—*cont.*

Repairs executed during the year.					
Buildings.		Roads and paths.			Total expended on repairs.
Nature of repairs.	Expenditure incurred.	Nature of repairs.	Length repaired.	Expenditure incurred.	
8	9	10	11	12	13
Circle—cont.					
	Rs.		MLS. F.	Rs.	Rs.
(*b*) Rest-houses	1,017	(*a*) Cart roads	78 0	3,181	
(*c*) Houses for subordinate establishments	390	(*b*) Bridle-paths	35 2	691	
(*d*) Others	97	(*c*) Others	..	22	
			113 2	3,894	5,398
		Add A-VII (*c*) ..	..	..	224
Total ..	1,504	Total ..	..	..	5,622
(*a*) Head-quarter houses ..	414	(*a*) Cart roads	301 6	12,803	
(*b*) Rest-houses	2,872	(*b*) Bridle-paths	53 0	1,135	
(*c*) Houses for subordinate establishments	5,110	(*c*) Others	9 0	433	
(*d*) Others	843				
	9,239		363 6	14,371	24,207
Add pay of watchers ...	597	Add A-VII (*c*) ..	..	..	3,786
Total ..	9,836	Total ..	..	.	27,993
(*a*) Head-quarter houses	871	(*a*) Cart roads	405 1	17,411	
(*b*) Rest-houses	8,281	(*b*) Bridle-paths	192 1	2,226	
(*c*) Houses for subordinate establishments	9,411	(*c*) Others	9 0	773	
(*d*) Others	1,651				
	20,214		606 2	20,410	45,014
Add pay of watchers ..	4,390	Add A-VII (*c*) ..	..	..	5,376
Total ..	24,604	Total ..	..	..	50,390

ANNUAL FORM No. 65.

Tramway Statement.

STATEMENT showing the results of transport of wood by tramway.

I.—*Nellore District.*

(i) Sríharikóta Range.

Capital Account.

——	1897-98.	1898-89.	——	1897-98.	1898-99.
Dr.	RS.	RS.	*Cr.*	RS.	RS.
To balance from the previous year	17,277	16,240	By depreciation at 6 per cent.	1,037	974
			,, balance of stock	16,240	15,266
Total ..	17,277	16,240	Total ..	17,277	16,240

Revenue Account.

——	1897-98.	1898-99.	——	1897-98.	1898-99.
Dr.	RS.	RS.	*Cr.*	RS.	RS.
To working expenses	734	901	By balance written off ..	2,684	2,762
,, road-making and repairs ..	222	237			
,, interest at 4 per cent. ..	691	650			
,, depreciation at 6 per cent. ..	1,037	974			
Total ..	2,684	2,762	Total ..	2,684	2,762

——	1897-98.					1898-99.				
	Number of tons of wood carried.	Number of miles carried.	Total ton miles.	Actual charge for carrying.	Rate per ton mile.	Number of tons of wood carried.	Number of miles carried.	Total ton miles.	Actual charge for carrying.	Rate per ton mile.
				RS.	RS. A. P.				RS.	
Work done	3,728	5¾	21,436	2,684	0 2 0	5,319	4¾	25,265	2,762	0 1 9

(ii) Casuarina Plantation Range.

Capital Account.

——	1897-98.	1898-99.	——	1897-98.	1898-99.
Dr.	RS.	RS.	*Cr.*	RS.	RS.
To balance from the previous year ..	12,515	11,764	By depreciation at 6 per cent. ..	751	706
			,, balance of stock	11,764	11,058
Total ..	12,515	11,764	Total ..	12,515	11,764

Revenue Account.

——	1897-98.	1898-99.	——	1897-98.	1898-99
Dr.	RS.	RS.	*Cr.*	RS.	RS.
To working expenses	710	426	By balance written off	1,962	1,602
,, interest at 4 per cent.	501	470			
,, depreciation at 6 per cent. ..	751	706			
Total ..	1,962	1,602	Total ..	1,962	1,602

Statement showing the results of transport of wood by tramway, &c.—*cont.*

(ii) Casuarina Plantation Range—*cont.*

Revenue Account—cont.

—	1897-98.					1898-99.				
	Number of tons of wood carried.	Number of miles carried.	Total ton miles.	Actual charge for carrying.	Rate per ton mile.	Number of tons of wood carried.	Number of miles carried.	Total ton miles.	Actual charge for carrying.	Rate per ton mile.
				RS.	RS. A. P.				RS.	RS. A. P.
Work done	1,705½	4	6,822	1,962	0 4 7	919¼	4	3,677	1,602	0 6 11

II. *Cuddapah District.*

Capital Account.

—	1897-98.	1898-99.	—	1897-98.	1898-99.
Dr.	RS.	RS.	*Cr.*	RS.	RS.
To balance from the previous year ..	10,251	9,636	By depreciation at 6 per cent. ..	615	578
			,, balance of stock	9,636	9,058
Total ..	10,251	9,636	Total ..	10,251	9,636

Revenue Account.

—	1897-98.	1898-99.	—	1897-98.	1898-99.
Dr.	RS.	RS.	*Cr.*	RS.	RS.
To working expenses	57	9	By revenue	246	246
,, road repairs	8	87	,, balance written off	844	1,213
,, depreciation at 6 per cent. ..	615	578			
,, interest at 4 per cent.	410	385			
,, Tramway repairs	..	400			
Total ..	1,090	1,459	Total ..	1,090	1,459

—	1897-98.					1898-99.				
	Number of tons of fuel carried.	Number of miles carried.	Total ton miles.	Actual charge for carrying.	Rate per ton mile.	Number of tons of fuel carried.	Number of miles carried.	Total ton miles.	Actual charge for carrying.	Rate per ton mile.
				RS.	RS. A. P.				RS.	RS. A. P.
Work done	320	1¼	400	844	2 11 7	335	1½	502½	1,213	2 14 5

III.—*South Coimbatore District.*

Capital Account.

—	1897-98.	1898-99.	—	1897-98.	1898-99.
Dr.	RS.	RS.	*Cr.*	RS.	RS.
To balance from the previous year ..	45,085	42,745	By depreciation at 6 per cent. ..	2,728	2,565
,, extension of tram line	388	..	,, balance of stock	42,745	40,180
Total ..	45,473	42,745	Total ..	45,473	42,745

Statement showing the results of transport of wood by tramway, &c.—*cont.*

III.—*South Coimbatore District*—cont.

Revenue Account.

——		1897-98.	1898-99.	——		1897-98.	1898-99.
	Dr.	RS.	RS.		*Cr.*	RS.	RS.
To working expenses ..	..	2,871	768	By balance written off ..	..	7,597	5,526
,, depreciation at 6 per cent.	..	2,728	2,565				
,, interest at 4 per cent. ..	..	1,819	1,710				
,, repairs to road way ..	..	44	330				
,, repairs to tram trucks ..	..	135	153				
Total	..	7,597	5,526	Total	..	7,597	5,526

——	1897-98.					1898-99.				
	Number of tons of timber carried.	Number of miles carried.	Total ton miles.	Actual charge for carrying.	Rate per ton mile.	Number of tons of timber carried.	Number of miles carried.	Total ton miles.	Actual charge for carrying.	Rate per ton mile.
				RS.	RS. A. P.				RS.	RS. A. P.
Work done ..	1,022 tons ($3,270\frac{2}{5}$ candies or 40,880 c. ft.).	$5\frac{1}{2}$	5,621	7,597	1 5 7	$116\frac{3}{8}$ tons ($372\frac{2}{5}$ candies or 4,655 c. ft.).	$5\frac{1}{4}$	611	5,526	3 8 9
						$227\frac{10}{40}$ tons ($727\frac{23}{25}$ candies or 9,099 c. ft.).	$3\frac{3}{4}$	853		
						$30\frac{17}{20}$ tons ($98\frac{18}{25}$ candies or 1,234 c. ft.).	3	93		
								1,557		

Annual Form No. 50.

Forest Department, Madras Presidency.

Register of Breaches of Forest Rules during 1898–99.

District.		Cases pending from 1897–98.	New cases of the year.					Total cases.	Disposed of during the year.						Cases pending at close of year.
			Injury to forest by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.		Convictions.		Acquittals.		Total.		
									Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	
1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
							Northern Circle.								
Ganjám	A	56	..	136	34	25	195	251	192	456	27	127	219	583	32
	B	11	..	136	13	19	168	179	..	..	..	..	168	405	21
	C	6	..	44	4	4	52	58	..	..	..	..	42 + * 16	131	..
	Total ..	73	..	316	51	48	415	488	192	456	27	127	435	1,119	53
Vizagapatam ..	A	52	5	224	119	47	395	447	363	1,132	47	139	410	1,271	37
	B	50	..	214	11	..	225	275	..	..	..	..	275	907	..
	C	3	..	124	65	..	189	192	..	..	..	..	192	516	..
	Total ..	105	5	562	195	47	809	914	363	1,132	47	139	877	2,694	37
Gódávari ..	A	17	4	79	17	15	115	132	89	235	19	48	108	283	24
	B	25	..	67	108	62	237	262	..	..	..	..	237	501	25
	C	..	4	94	..	3	101	101	..	..	..	..	82 + * 19	250	..
	Total ..	42	8	240	125	80	453	495	89	235	19	48	446	1,034	49
Kistna	A	29	..	46	99	9	154	183	141	493	24	108	165	601	18
	B	31	1	279	394	22	696	727	..	..	..	..	712	1,811	15
	C	..	..	25	128	8	161	161	..	..	..	..	41 + * 120	110	..
	Total ..	60	1	350	621	39	1,011	1,071	141	493	24	108	1,038	2,522	33
Kurnool	A	142	1	303	196	21	521	663	397	857	45	198	442	1,055	221
	B	111	..	185	148	16	349	460	..	..	..	..	348	893	112
	C	..	..	43	22	9	74	74	..	..	..	..	74	..	..
	Total ..	253	1	531	366	46	944	1,197	397	857	45	198	864	1,948	333

A. Cases taken into Court. B. Cases compounded. C. Cases undetected or withdrawn. * Cases undetected.

Register of Breaches of Forest Rules during 1898-99—*cont.*

District.		Cases pending from 1897-98.	New cases of the year.					Total cases.	Disposed of during the year.						Cases pending at close of year.
			Injury to forest by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.		Convictions.		Acquittals.		Total.		
									Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	
1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
Northern Circle—cont.															
Bellary	A	19	..	29	67	26	122	141	88	281	21	39	109	320	32
	B	59	..	292	106	..	398	457	..	..	..	..	416	1,199	41
	C	..	9	49	7	10	75	75	..	..	..	..	75	139	..
	Total ..	78	9	370	180	36	595	673	88	281	21	39	600	1,658	78
Anantapur ..	A	31	..	123	90	10	223	254	176	572	63	330	239	902	15
	B	23	..	69	145	8	222	245	..	..	..	..	209	526	36
	C	..	11	19	20	6	56	56	..	..	..	..	43 / * 13	109	..
	Total ..	54	11	211	255	24	501	555	176	572	63	330	504	1,537	51
Total, Northern Circle.	A	346	10	940	622	153	1,725	2,071	1,446	4,026	246	989	1,692	5,015	379
	B	310	1	1,242	925	127	2,295	2,605	..	..	..	..	2,355	6,242	250
	C	9	24	398	246	40	708	717	..	..	..	..	549 / * 168	1,265	..
Grand Total, Northern Circle ..		665	35	2,580	1,793	320	4,728	5,393	1,446	4,026	246	989	4,764	12,512	629
Central Circle.															
Cuddapah ..	A	43	1	149	137	5	292	335	269	665	41	199	310	864	25
	B	45	..	235	368	5	608	653	..	..	..	..	586	1,487	67
	C	13	2	113	109	13	237	250	..	..	..	..	250	602	..
	Total ..	101	3	497	614	23	1,137	1,238	269	665	41	199	1,146	2,953	92
Nellore	A	45	..	103	256	12	371	416	335	673	29	94	364	767	52
	B	3	..	45	24	2	71	74	..	..	..	..	66	183	8
	C	6	..	13	62	1	76	82	..	..	..	..	82	..	..
	Total ..	54	..	161	342	15	518	572	335	673	29	94	512	950	60
Chingleput ..	A	..	..	65	52	10	127	127	104	190	23	67	127	257	..
	B	56	..	495	166	36	697	753	..	..	..	..	736	761	17
	C	..	..	..	91	..	91	91	..	..	..	..	91	108	..
	Total ..	56	..	560	309	46	915	971	104	190	23	67	954	1,126	17

A, Cases taken into Court. B, Cases compounded. C, Cases undetected or withdrawn. * Cases undetected.

Register of Breaches of Forest Rules during 1898–99—*cont.*

District.	Cases pending from 1897–98.	New cases of the year.					Total cases.	Disposed of during the year.						Cases pending at close of year.
		Injury to forest by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.		Convictions.		Acquittals.		Total.		
								Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Central Circle—cont.														
North Arcot .. A	85	..	91	118	24	233	318	262	733	39	174	301	907	17
North Arcot .. B	122	..	632	1,057	44	1,733	1,855	..	..	..	..	1,552	3,668	303
North Arcot .. C	..	..	44	110	6	160	160	..	..	..	..	155	339	..
North Arcot .. C												* 5		
North Arcot .. Total	† 207	..	767	1,285	74	2,126	2,333	262	733	39	174	2,013	4,914	320
South Arcot .. A	63	1	433	371	62	867	930	681	1,843	65	221	746	2,064	184
South Arcot .. B	249	..	784	900	75	1,759	2,008	..	..	..	..	1,759	4,190	249
South Arcot .. C	2	8	228	81	23	340	342	..	..	..	..	342	422	..
South Arcot .. Total	314	9	1,445	1,352	160	2,966	3,280	681	1,843	65	221	2,847	6,676	433
Salem .. .. A	80	..	306	243	25	574	654	474	1,452	96	532	570	1,984	84
Salem .. .. B	155	..	539	601	25	1,165	1,320	..	..	..	..	1,168	3,106	152
Salem C	..	3	190	6	..	199	199	..	..	..	..	187	654	..
Salem C												* 12		
Salem .. .. Total	235	3	1,035	850	50	1,938	2,173	474	1,452	96	532	1,937	5,744	236
Trichinopoly .. A	33	1	197	88	14	300	333	254	840	64	163	318	1,003	15
Trichinopoly .. B	72	1	148	379	12	540	612	..	..	..	..	492	1,430	120
Trichinopoly .. C	1	..	27	19	1	47	48	..	..	..	..	48	..	..
Trichinopoly .. Total	106	2	372	486	27	887	993	254	840	64	163	858	2,433	135
Tanjore .. .. A	2	..	17	11	4	32	34	28	75	3	27	31	102	3
Tanjore .. .. B	1	..	25	13	1	39	40	..	..	..	..	31	57	9
Tanjore C	2	..	..	2	1	3	5	..	..	..	..	5	..	..
Tanjore .. .. Total	5	..	42	26	6	74	79	28	75	3	27	67	159	12
Total, Central Circle. A	351	3	1,361	1,276	156	2,796	3,147	2,407	6,471	360	1,477	2,767	7,948	380
Total, Central Circle. B	703	1	2,903	3,508	200	6,612	7,315	..	..	..	..	6,390	14,882	925
Total, Central Circle. C	24	13	615	480	45	1,153	1,177	..	..	..	..	1,160	2,125	..
Total, Central Circle. C												* 17		
Grand Total, Central Circle ..	1,078	17	4,879	5,264	401	10,561	11,639	2,407	6,471	360	1,477	10,334	24,955	1,305

A. Cases taken into Court. B. Cases compounded. C. Cases undetected or withdrawn under section 49 of the Forest Act.

* Cases undetected. † The Collector has not explained the discrepancy between the closing balance of 1897–98 and the opening balance of 1898–99.

Register of Breaches of Forest Rules during 1898-99—*cont.*

District.	Cases pending from 1897-98.	New cases of the year.					Total cases.	Disposed of during the year.						Cases pending at close of year.
		Injury to forest by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.		Convictions.		Acquittals.		Total.		
								Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
						Southern Circle.								
South Canara † .. A	60	4	140	16	31	191	251	171	332	50	108	221	440	30
B	39	..	257	1	42	300	339	..	..	..	..	264	451	75
C	2	33	7	1	1	42	44	..	..	..	..	44	84	..
Total ..	101	37	404	18	74	533	634	171	332	50	108	529	975	105
North Malabar .. A	3	..	..	6	4	10	13	7	9	4	7	11	16	2
B	4	..	..	2	1	3	7	..	..	..	..	7	7	..
C	..	..	..	..	2	2	2	..	..	..	..	2	2	..
Total ..	7	..	..	8	7	15	22	7	9	4	7	20	25	2
South Malabar .. A	3	1	14	..	..	15	18	13	32	..	..	13	32	5
B	..	..	4	..	..	4	4	..	..	..	..	4	11	..
C	..	..	1	..	1	2	2	..	..	..	..	2	..	..
Total ..	3	1	19	..	1	21	24	13	32	..	..	19	43	5
The Nilgiris .. A	44	..	36	52	23	111	155	115	329	5	44	120	373	35
B	3	1	11	5	1	18	21	..	..	..	..	21	42	..
C	11	* 7	4	..	..	11	22	..	..	..	..	15 / * 7	44	..
Total ..	58	8	51	57	24	140	198	115	329	5	44	156 / * 7	459	35
North Coimbatore. A	19	5	80	145	12	242	261	192	543	31	138	223	681	38
B	9	1	63	75	3	142	151	..	..	..	..	137	360	14
C	7	..	30	58	6	94	101	..	..	..	..	101	299	..
Total ..	35	6	173	278	21	478	513	192	543	31	138	461	1,340	52
South Coimbatore.. A	29	2	81	19	8	110	139	95	309	15	53	110	362	29
B	44	..	128	77	5	210	254	..	..	..	..	232	551	22
C	17	..	27	14	4	45	62	..	..	..	..	62	113	..
Total ..	90	2	236	110	17	365	455	95	309	15	53	404	1,026	51

A. Cases taken to Court. B. Cases compounded. C. Cases withdrawn and undetected.

* Cases undetected.

† Excludes 1,846 petty offences committed by 2,142 persons let off with a warning.

Register of Breaches of Forest Rules during 1898-99—*cont.*

District.	Cases pending from 1897-98.	New cases of the year.					Total cases.	Disposed of during the year.						Cases pending at close of year.
		Injury to forest by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.		Convictions.		Acquittals.		Total.		
								Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Southern Circle—cont.														
Madura .. .. A	77	5	214	325	19	563	640	456	1,291	37	127	493	1,418	117
B	13	..	127	124	1	252	265	..	..	..	..	265	690	..
C	17	..	27	13	6	46	63	..	..	..	..	63	..	..
Total ..	† 107	5	368	462	26	861	968	456	1,291	37	127	821	2,108	147
Tinnevelly .. A	1	1	44	6	2	53	54	41	106	6	21	47	127	7
B	48	..	222	132	19	373	421	..	..	..	..	395	1,212	26
C	7	32	96	36	3	167	174	..	..	..	..	99 / * 75	..	..
Total ..	56	33	362	174	24	593	649	41	106	6	21	616	1,339	33
Total, Southern Circle. A	236	18	609	569	99	1,295	1,531	1,090	2,951	148	498	1,238	3,449	293
B	160	2	812	416	72	1,302	1,462	..	..	..	..	1,325	3,324	137
C	61	72	192	122	23	409	470	..	..	..	..	388 / * 82	542	..
Total ..	457	92	1,613	1,107	194	3,006	3,463	1,090	2,951	148	498	3,033	7,315	430
Total, Presidency .. A	933	31	2,910	2,467	408	5,816	6,749	4,943	13,448	754	2,964	5,697	16,412	1,052
B	1,173	4	4,957	4,849	399	10,209	11,382	..	..	..	..	10,070	24,448	1,312
C	94	109	1,205	848	108	2,270	2,364	..	..	..	..	2,097 / * 267	3,922	..
Grand Total, Presidency ..	2,200	144	9,072	8,164	915	18,295	20,495	4,943	13,448	754	2,964	18,131	44,782	2,364

A. Cases taken to Court. B. Cases compounded. C. Cases withdrawn and undetected.

* Cases undetected.

† The closing balance of the previous year was 112. The Collector has not explained the variation.

ANNUAL FORM No. 51.

Forest Department, Madras Presidency.

AREA of Forest Tracts protected from Fire during 1898-99.

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During dry season of 1899.			Cost during the season.	Remarks.
				Area attempted to be protected.	Fires.	Actually protected.		
1	2	3	4	5	6	7	8	9
	Northern Circle.		ACS.	ACS.	ACS.	ACS.	RS.	
Ganjám—Kukuluba.	Gogodo	1890 ..	15,160	15,240	150	15,090	64	
	Chodiapalli	1891 ..	907	907	100	807	..	
	Chendragiri	1885 ..	18,090	18,320	300	18,020	126	
	Brahmanosii	1889 ..	7,980	8,080	150	7,930	62	
	Total, Kukuluba ..	..	42,137	42,547	700	41,847	252	
Mojjaguda.	Tiliki	1889 ..	3,900	4,000	93	3,907	31	
	Dhinirijholi	1889 ..	5,306	5,486	110	5,376	31	
	Darpangia	1889 ..	5,760	6,000	125	5,875	47	
	Gulleri	1889 ..	22,990	23,860	358	23,502	123	
	Kaliamba	1889 ..	8,776	8,896	111	8,785	62	
	Baiballi	1889 ..	9,925	10,000	70	9,930	47	
	Total, Mojjagudá ..	..	56,657	58,242	867	57,375	341	
Suradá ..	Dabuki	1890 ..	1,250	1,450	140	1,310	48	
	Dougam	1889 ..	2,200	2,400	400	2,000	16	
	Pippalaponka	1889 ..	3,200	4,000	620	3,380	64	
	Total, Surada ..	..	6,650	7,850	1,160	6,690	128	
Buguda ..	Panchabhuthi	1889 ..	4,320	4,320	600	3,720	64	
	Kurcholi	1889 ..	4,920	5,520	400	5,120	64	
	Total, Buguda ..	..	9,240	9,840	1,000	8,840	128	
Berhampore	Ramagoda	1885 ..	6,613	6,620	117	6,503	28	
	Bainamari	1885 ..	3,746	3,750	68	3,682	28	
	South mohiri	1885 ..	3,749	3,750	46	3,704	28	
	Total, Berhampore ..	..	14,108	14,120	231	13,889	84	
	Total, Ganjám ..	..	128,792	132,599	3,958	128,641	933	
Vizagapatam.	Peddapalli	1889 ..	9,075	9,077	..	9,077	58	
	Barnakonda	..	15,740	16,405	833	15,572	60	
	Chinnagora	..	2,046	2,047	86	1,961	45	
	Itchapuram	..	899	900	675	225	20	
	Antikonda	..	6,750	6,829	20	6,809	50	
	Paakonda	1897 ..	5,098	8,320	89	8,231	40	
	Kadagandi	..	9,820	9,920	1,933	7,987	80	
	Do. III	..	1,657	816	305	511	..	
	Garugubilli	1899 ..	..	27	2	25	..	
	Arlova	1892 ..	2,685	2,473	..	2,473	27	
	Madalammakonda ..	..	3,598	3,600	25	3,575	15	
	Karakakonda	..	5,738	6,270	145	6,125	54	
	Pedimikonda	..	4,260	3,227	1	3,226	24	
	Kakarlakonda	..	4,052	1,924	..	1,924	6	
	Kodavatipudi	..	1,544	1,544	40	1,504	7	
	Venkatapuram	..	508	508	..	508		
	Boddapalem	1899 ..	..	380	..	380	6	
	Sitakhandi	..	..	4,570	250	4,320	..	
	Total, Vizagapatam ..	..	73,470	78,837	4,404	74,433	492 + 15	Added as per Accountant-General's audited figures.
Gódávari (Special)—Bhadrachalam.	Dummagudem reserved forest.	1887 ..	6,049	6,110	2	6,108	203	
	Arlagudem reserved forest	1888 ..	6,124	6,136	6	6,130	218	
	Gogubaka	1887 ..	1,666	1,666	1	1,665	50	
	Total, Bhadrachalam ..	..	13,839	13,912	9	13,903	471	
Marrigudem range.	Repak	1887 ..	5,760	7,000	3,000	4,000	111	
	Ramachandram	1887 ..	10,220	10,300	..	10,300	218	
	Tallanka	1887 ..	10,665	12,000	65	11,935	228	
	Total, Marrigudem ..	..	26,645	29,300	3,065	26,235	557	
Rekapalli range.	Mattapalli reserve ..	1889 ..	7,794	9,500	1,536	7,964	213	
	Total, Gódpvari (Special) .	..	48,278	52,712	4,610	48,102	1,241	

Area of Forest Tracts protected from Fire during 1898-99—*cont.*

District.	Forest tracts.	Year in which protection commenced.	During dry season of 1899. Area protected during the previous year.	Area attempted to be protected.	Fires.	Actually protected.	Cost during the season.	Remarks.
1	2	3	4	5	6	7	8	9
	Northern Circle—cont.		ACS.	ACS.	ACS.	ACS.	RS.	
Gódávari (General)— Rajahmundry range.	Devancheruvu reserved forest.	1887 ..	2,051	2,051	..	2,051	40	
	Kovida reserved forest.	1889 ..	1,280	1,280	..	1,280	40	
	Murari do. ..	1889 ..	700	700	..	700	22	
	Sudikonda do. ..	1887 ..	6,849	6,880	760	6,120	34	
	Tirumalayapalem reserved forest.	1887 ..	5,150	5,150	56	5,094	52	
	Mallavaram reserved forest.	1887 ..	7,600	7,600	256	7,344	38	
	Molleru reserved forest..	1887 ..	8,236	8,250	1,264	6,986	18	
	Lakkonda do. ..	1887 ..	13,094	13,104	1,622	11,482	34	
	Total, Rajahmundry ..	..	44,960	45,015	3,958	41,057	278	
Peddápuram range.	Thotapalli	1890 ..	2,050	2,150	20	2,130	30	
Yernagúdem range.	Jilugumalli reserved forest.	1898 ..	3,300	3,300	10	3,290	60	
	Beddadavole reserved forest.	1890 ..	14,760	15,000	48	14,952	220	
	Marlagudem reserved forest.	1890 ..	2,099	2,100	4	2,096	102	
	Barrinkalapadu reserved forest.	1898 ..	1,650	1,650	5	1,645	57	
	Total, Yernagudem ..	..	21,809	22,050	67	21,983	439	
Ellore range.	Barrikonda reserved forest.	1888 ..	3,500	3,500	325	3,175	140	
	Bandamcherla reserved forest.	1888 ..	5,200	5,200	..	5,200	102	
	Erraguntapalli reserved forest.	1888 ..	7,941	8,640	..	8,640	161	
		..	16,641	17,340	325	17,015	403	
	Total, Gódávari (General).	..	85,460	86,555	4,370	82,185	1,150	
	Grand Total, Gódávari (Special and General).	..	133,738	139,267	8,980	130,287	2,391	
Kistna (Special)— Bezwada range.	Kondapalli reserve compartments 6, 10, 13, 14.	1884-85 ..	5,758	5,570	30	5,540	181	Cost of establishment.
	Total, Kistna (Special) ..	..	5,758	5,570	30	5,540	181	
Kistna (General)— Bezwada range.	Kottur extension 1 ..	1894-95 ..	700	700	..	700	..	
	Dasullapalem	1896-97 ..	1,260	1,260	..	1,260	..	
	Total, Bezwada ..	..	1,960	1,960	..	1,960	..	
Guntúr ..	Karlapudi	1896-97 ..	619	619	..	619	..	
	Tadepalli	1889-1890.	1,000	2,305	..	2,305	..	
	Kondavid	1888-89 ..	4,516	12,857	..	12,857	..	
	Total, Guntúr ..	..	6,135	15,781	..	15,781	..	
Sattenapalli.	Venkatayapalem reserve compartments 2, 5, 6, 13, 15.	1894-95 ..	15,588	15,588	288	15,300	5	Cost of putting out fire.
Palnad ..	Gangalakunta reserve ..	1890-91 ..	24,840	24,461	..	24,461	..	
	Pasvimula reserve compartments 1 to 3.	1892-93 ..	10,158	10,158	..	10,158	..	
	Total, Palnad ..	..	34,998	34,619	..	34,619	..	
Vinukonda.	Bollapalli reserve compartments I to VI.	1885-86 ..	20,700	20,700	..	20,700	..	
	Total, Kistna (General) ..	..	79,381	88,648	288	88,360	5	
	Grand Total, Kistna (Special and General).	..	85,139	94,218	318	93,900	186	

Area of Forest Tracts protected from Fire during 1898-99—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During dry season of 1899.			Cost during the season.	Remarks.
				Area attempted to be protected.	Fires.	Actually protected.		
1	2	3	4	5	6	7	8	9
	Northern Circle—cont.		ACS.	ACS.	ACS.	ACS.	RS.	
Kurnool ..	North and South Banluti blocks.	1887 ..	15,150	17,700	1,978	15,722	430	
	"A" block	1889 ..	7,200	8,000	3,200	4,800	369	
	South Chelama	1891 ..	..	8,000	650	7,350	613	
	South Chelama addition ..	1894 ..	..	4,000	..	4,000	81	
	Gummakonda	1893 ..	4,400	6,000	30	5,970	203	
	Diguvametta	1891 ..	..	800	800	..	28	
	Zangambhavi	1891 ..	140	140	..	140	28	
	Western Veligonda ..	1889 ..	6,589	17,780	4	17,776	85	
	East and West Ramallakota reserves.	1890 ..	4,720	..	..	..	12	
	Gadidamadugu	1893 ..	1,752	..	..	..	8	
	Tekulakonda	1891 ..	715	..	..	..	3	
	Tuvvakonda	1891 ..	6,700	..	..	..	12	
	Chelama Improvement felling block.	1895 ..	1,000	2,000	300	1,700	75	
	Total, Kurnool ..	..	48,357	64,420	6,962	57,458	1,947 + 578	Represents cost of protecting district, taluk and reserve boundary lines in Sirvel range and of cutting grass on each side of the rail way line in Nandyal and Cumbum.
Bellary (Special)— Sandur ..	Ramandrug range ..	1883 ..	14,385	14,785	55	14,730	780	
	North-East range ..	1883 ..	16,010	16,010	..	16,010	853	
	Donimalai	1883 ..	9,205	9,205	1,900	7,305	669	
	Total, Sandur ..	..	39,600	40,000	1,955	38,045	2,302	
Bellary ..	Malapanagudy ..	1886-87 ..	1,066	1,066	..	1,066	..	
	Kúdligi	..	18,163	..	..	..	..	
	Total, Bellary range ..	..	19,229	1,066	..	1,066	..	
	Total, Bellary (Special) ..	..	58,829	41,066	1,955	39,111	2,302	
Bellary (General)— Adóni ..	Kuppigal	1892-93 ..	430	500	40	460	9	
	Tungabhadra	..	..	60	10	50	..	
	Ganekal	1890-91 ..	1,074	1,074	100	974	..	
	Tornagal	1889 ..	..	50	..	50	12	
	Total, Bellary (General)..	..	1,504	1,684	150	1,534	21 + 11	Incurred in putting out fires, &c., in Bandri and Jangicalgutta.
	Grand Total, Bellary (Special and General).	..	60,333	42,750	2,105	40,645	2,334	
Anantapur— Special ..	Kojjapalli	1889 ..	342	342	..	342	32	
	Anantapur	1889 ..	129	129	..	129	20	
	Muchukota	1884 ..	10,879	7,000	10	6,990	277	
	Durgam	1894 ..	3,640	3,640	..	3,640	198	
	Kottakota	1884 ..	10,516	11,016	1,060	9,956	418	
	Total, Anantapur (Special).	..	25,506	22,127	1,070	21,057	945	
General ..	Amagondapalayam ..	1884 ..	15,344	15,360	200	15,160	160	
	Gopidevarapalli	1891 ..	1,884	1,884	..	1,884	36	
	Nyalakota	1890 ..	12,126	12,156	800	11,356	128	
	Dokkalakonda	1898 ..	7,420	7,420	200	7,220	64	
	Guttur, West	1887 ..	3,880	3,880	1,000	2,880	69	
	Kekathi	1898 ..	1,235	1,235	..	1,235	..	
	Koderu	1887 ..	10,711	..	..	..	..	
	Ramagiri	1890 ..	9,527	..	..	..	..	
	Penukonda	1890 ..	4,642	..	..	..	..	
	Yerralampalli	1890 ..	2,959	..	..	..	..	
	Mallappakonda	1886 ..	4,370	..	..	..	..	

Area of Forest Tracts protected from Fire during 1898-99—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During dry season of 1899.				Remarks.
				Area attempted to be protected.	Fires.	Actually protected.	Cost during the season.	
1	2	3	4	5	6	7	8	9
	Northern Circle—cont.		ACS.	ACS.	ACS.	ACS.	RS.	
General—*cont*	Narsampalli	1886 ..	2,210	..	..	..	..	
	Somandapalli	1891 ..	9,232	..	..	..	..	
	Somarazmalai	1885 ..	2,115	..	..	..	..	
	Total, Anantapur (General).	..	87,655	41,935	2,200	39,735	457	
	Grand Total, Anantapur (Special and General).	..	113,161	64,062	3,270	60,792	1,402	
	Total, Northern Circle (Special).	..	138,371	121,475	7,665	113,810	4,669	
	Total, Northern Circle (General).	..	504,619	494,678	22,332	472,346	5,609	
	Grand Total, Northern Circle.	..	642,990	616,153	29,997	586,156	10,278	
	Central Circle.							
Cuddapah—								
Special ..	Lankamalai	1883 ..	5,550	7,000	660	6,340	680	
	Kottakota-Dasaripalli ..	1883—85—89	99,620	51,200	460	50,740	636	This area was shown under "General" last year.
	Yerakonda and its extension.	1899 ..	..	32,000	2,706	29,294	85	
	Total, Special ..	..	105,170	90,200	3,826	86,374	1,401	
General ..	Kodur reserve ..	1874 ..	5,990	7,440	990	6,450	171	
	Settigunta do. ..	1871 ..	8,950	8,960	352	8,608	179	
	Tunukonda do. ..	1874 ..	1,020	1,048	..	1,048	51	
	Seshachalam do. ..	1867-73-90	163,777	176,200	5,993	170,207	1,628	
	Vattalur do. ..	1887 ..	2,880	2,880	..	2,880	56	
	Nigadi do. ..	1881 ..	13,990	14,000	..	14,000	93	
	Kondakemerla do. ..	..	3,700	3,700	..	3,700	14	
	Tummalamala do. ..	1890 ..	8,500	8,500	60	8,460	52	
	Kokanti do. ..	1881 ..	1,940	2,000	..	2,000	14	
	Tsadukonda do. ..	..	2,200	2,200	..	2,200	14	
	Madugumala do. ..	..	1,400	1,400	..	1,400	16	
	Horsleykonda do. ..	..	15,485	15,500	..	15,500	105	
	Nurukupalakonda reserve.	..	3,600	3,600	..	3,600	52	
	Yellutla reserve	..	3,500	3,500	..	3,500	14	
	Ankalammakonda reserve.	..	2,000	2,000	..	2,000	53	
	Gorantlapalli reserve ..	..	4,000	4,000	..	4,000	14	
	Mamillapalli do. ..	1883-88 ..	5,000	5,000	..	5,000	99	
	Palkondas do. ..	1890 ..	..	1,000	..	1,000	255	
	Guvvalacheruvu do. ..	1883 ..	7,600	7,600	..	7,600	1	
	Rekkalukonda do. ..	1887 ..	1,200	1,200	..	1,200	14	
	Urakonda do. ..	1881 ..	8,960	8,960	..	8,960	19	
	Gadikota do. ..	1883 ..	12,480	12,480	1,720	10,760	111	
	Sibyala do. ..	1887 ..	3,500	3,500	..	3,500	39	
	Kanamalapalli do. ..	..	3,805	4,435	286	4,149	84	
	Tsundupalli do. ..	..	3,000	3,000	..	3,000	17	
	Kondasunkesula and Diguva Kalwasala reserve.	1881 ..	858	858	..	858	22	
	Dhodiam-Morapandi reserve.	..	1,105	1,345	..	1,345	22	
	Kodur Malamidi-Kampiladinne reserve.	..	1,366	1,366	..	1,366	22	
	Gandillah reserve ..	..	372	372	..	372	22	
	Zamavaram-Muddanur reserve.	..	200	200	..	200	14	
	Kosinipalli-Kalamella reserve.	..	730	730	..	730	14	
	Aratipalle-Peddadudyala reserve.	..	750	750	..	750	14	
	Niduguvvi reserve ..	..	696	696	..	696	14	
	Total, General ..	..	294,554	310,420	9,301	301,119	3,309	
	Total, Special and General, Cuddapah.	..	399,724	400,620	13,127	387,493	4,710	

Area of Forest Tracts protected from Fire during 1898-99—*cont.*

Districts.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During dry season of 1889.			Cost during the season.	Remarks.
				Area attempted to be protected.	Fires.	Actually protected.		
1	2	3	4	5	6	7	8	9
	Central Circle—cont.		ACS.	ACS.	ACS.	ACS.	RS.	
Nellore— Udayagiri range. Atamakur range.	Udayagiri-Veligonda ..	1883 ..	59,336	60,000	..	60,000	333	
Rapur rang	Rapur-Veligonda	1883 ..	28,799	30,720	..	30,720	222	
Kanigiri ..	Kanigiri-Veligonda ..	1883 ..	25,000	25,000	..	25,000	53	
	Total, Nellore General ..	..	113,135	115,720	..	115,720	608	
Chingleput— Special ..	Kambakkam reserved forest.	1883-84 ..	14,951	14,951	..	14,951	91	
	Nagalapuram reserved forest.	1883-84 ..	8,295	8,345	..	8,345	48	
	Pulrambakkam	1883-84 ..	555	577	..	577	..	
	Total, Chingleput Special.	..	23,801	23,873	..	23,873	{ 139 + 170	Added as per Accountant-General's audited figures.
North Arcot— Special .. Chittoor range.	Irala	1888 ..	15,570	15,622	1	15,621	106	
	Chittapara	1888 ..	4,250	4,250	..	4,250	18	
	Mahimodalam	1888 ..	2,516	2,528	..	2,528	10	
	Cherlopalli	1884 ..	1,296	1,296	..	1,296	10	
	Pachigunta	1888 ..	1,800	1,801	..	1,801	20	
	Paradarami	1880 ..	15,003	13,402	..	13,402	44	
	Virisettipalli	1888 ..	7,287	7,287	..	7,287	12	
	Puthalpet	1891 ..	2,442	2,442	10	2,432	15	
	Parappumalai	..	..	2,227	..	2,227	33	
	Tavanampalli	..	..	1,802	..	1,802	25	
	Total, Chittoor range ..	..	50,164	52,657	11	52,646	293	
Chandragiri.	Napier	1880 ..	8,380	8,380	..	8,380	139	
	Mamandur	1874 ..	1,747	1,776	..	1,776	48	
	Do. extension ..	1888 ..	8,000	8,000	..	8,000	143	
	Mungilpattur	1890 ..	22,689	22,700	..	22,700	56	
	Panapakam	1880 ..	6,350	6,400	..	6,400	76	
	Chamala	1880 ..	5,760	9,600	..	9,600	118	
	Nagapatla	1890 ..	8,075	8,266	..	8,266	63	
	Tirupati hill	1888 ..	16,000	16,000	90	15,910	92	
	Do. extension ..	1891 ..	4,930	5,840	255	5,585	29	
	Panapakam extension ..	1892 ..	9,730	9,730	..	9,730	8	
	Pudipatlabylu	1880 ..	2,560	2,560	..	2,560	4	
	Sanambhatla	1892 ..	4,864	..	..	..	..	Transferred to General protection.
	Damalcherla	..	..	2,417	..	2,417	8	
	Total, Chandragiri ..	..	99,085	101,669	345	101,324	784	
Palmanér ..	Peddanaigdrug	1880 ..	12,759	14,419	..	14,419	22	
	Mordana	1884 ..	12,098	11,655	..	11,655	50	
	Charagal	1888 ..	18,911	18,285	..	18,285	33	
	Peddur	1880 ..	8,017	16,526	20	16,506	39	
	Naickaneri	1880 ..	3,170	6,840	..	6,840	5	
	Musilimadugu	1884 ..	7,833	5,542	..	5,542	88	
	Palamaner	1892 ..	1,791	1,791	..	1,791	26	
	Total, Palmanér ..	..	64,579	75,058	20	75,038	263	
Gudiyáttam.	Panamadangi	1887 ..	9,340	10,515	..	10,515	78	
	Naickaneri	1884 ..	2,830	5,179	..	5,179	32	
	Mordana	1884 ..	10,450	12,691	..	12,691	58	
	Ambur drug	1884 ..	5,060	10,139	..	10,139	48	
	Kampasamudram ..	1893 ..	1,238	1,415	..	1,415	20	
	Naickaneri	1887 ..	1,280	1,568	25	1,543	28	
	Mordana	1891 ..	9,598	9,094	50	9,044	59	
	Gundlapalli	1894 ..	8,358	7,354	..	7,354	36	
	Do. extension ..	1894 ..	800	928	..	928	..	
	Sayanagunta	1891 ..	6,400	6,400	..	6,400	32	
	Do. extension ..	1892 ..	4,395	4,395	..	4,395	34	
	Kallapadi	1894 ..	6,300	7,283	..	7,283	10	
	Kanjanur	1893 ..	2,480	1,549	..	1,549	20	
	Paradarami extension ..	1889 ..	1,900	1,888	..	1,888	7	
	Karapet	1892 ..	7,693	8,333	415	7,918	61	
	Total, Gudiyáttam ..	..	78,102	88,731	490	88,241	523	

Area of Forest Tracts protected from Fire during 1898-99—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During dry season of 1899. Area attempted to be protected.	Fires.	Actually protected.	Cost during the season.	Remarks.
1	2	3	4	5	6	7	8	9
	Central Circle—cont.		ACS.	ACS.	ACS.	ACS.	RS.	
North Arcot —*cont.* Special—*cont.*	Arasampattu	1887	31,480	17,890	..	17,890	233	
	Ambur fuel	1879	3,340	5,453	..	5,453	151	
	Vellakal	1889	5,269	5,037	..	5,037	66	
	Ambur block	1887	24,885	27,878	..	27,878	182	
	Athiyur	1889	4,808	4,800	..	4,800	32	
	Palamadi	1880	6,200	8,160	100	8,060	105	
	Thellai (Vellore portion)	1891	9,151	1,330	..	1,330	60	
Vellore	Karuthamalai	1882	11,856	20,486	..	20,486	190	
	Kylasagiri	1892	1,095	2,534	20	2,514	101	
	Kaniambadi	1892	1,114	5,472	..	5,472	28	
	Nellimalai	1892	1,490	2,797	..	2,797	15	
	Sanankuppam	1893	5,421	13,843	..	13,843	51	
	Parnamalai	1892	3,962	2,078	..	2,078	34	
	Vellore	1892	..	2,413	5	2,408	20	
	Pallikondai	1892	1,990	3,898	..	3,898	11	
	Appukal	1892	700	800	..	800	25	
	Total, Vellore	..	113,261	124,869	125	124,744	1,304	
Pólúr	Karnatighur	1881	7,069	7,270	..	7,270	240	
	Malayalam	1887	9,822	28,615	5	28,610	147	
	Mulakad	1890	16,457	15,744	20	15,724	179	
	Santavasal	1890	7,988	9,670	..	9,670	46	
	Periyamalai	1892	1,157	6,970	10	6,960	50	
	Paruvadamalai	1892	3,750	5,779	..	5,779	41	
	Thellai (Pólúr portion)	1891	5,670	14,862	..	14,862	24	
	Vellimalai	1893	992	2,003	..	2,003	22	
	Kelur	1884	2,866	2,989	..	2,989	7	
	Virappanur	1886	63,950	31,469	..	31,469	96	
	Total, Pólúr	..	119,721	125,371	35	125,336	852	
Arcot-Wallajah.	Banavaram	1880	1,050	1,051	..	1,051	..	RS. Amount spent on fire patrol .. 1,606 Amount spent on fire line-clearing 945 miles .. 2,510 Total . 4,116
	Punganur	1884	3,635	13,498	2,136	11,362	94	
	Ammur	1884	5,872	5,139	200	4,939	43	
	Total, Arcot-Wallajah	..	10,557	19,688	2,336	17,352	137	
	Total, Special, North Arcot.	..	535,469	588,043	3,362	584,681	4,156 — 40 *	
General.								
Chittoor	Kinatipalle	1884	1,417	1,417	..	1,417	..	
	Santhapet	1882	2,096	2,096	..	2,096	..	
	Basavapalli	1888	1,937	1,784	..	1,784	..	
	Bommasamudram	1891	1,242	1,242	..	1,242	..	
	Vadilatata	1891	2,495	2,495	..	2,495	..	
	Tavanampalli	1891	1,860	..	..	..	..	Transferred to special protection during 1898-99.
	Chittoor	1882	300	300	..	300	..	
	Bommasamudram extension.	1892	1,500	1,312	..	1,312	..	
	Kinatipalli extension	1893	1,500	1,500	..	1,500	..	
	Basavapalle do.	1894	830	830	..	830	..	
	Reddigunta	1893	2,479	2,479	..	2,479	..	
	Chase's hill	1893	1,773	1,773	..	1,773	..	
	Irala extension	1893	3,092	3,092	..	3,092	..	
	Penumur	1891	2,097	1,082	..	1,082	..	
	Parappumalai	1893	1,741	..	..	..	..	Transferred to special protection during 1898-99.
	Penamur	1893	3,392	3,392	..	3,392	..	
	Santhapet extension	1893	477	477	..	477	..	
	Total, Chittoor	..	30,228	25,271	..	25,271	..	
Chandragiri.	Chendragiri hill	1892	983	983	..	983	..	
	Damalcherla	1892	2,417	..	..	..	..	Transferred to special protection dur n 1898-99.
	Sanambatla	1892	..	5,000	6	4,994	..	
	Pakala A and B	1894	2,170	2,170	..	2,170	..	
	Total, Chandragiri	..	5,570	8,315	6	8,147	..	

* Deducted as per Accountant-General's audited figures.

Area of Forest Tracts protected from Fire during 1898-99—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During dry season of 1899.			Cost during the season.	Remarks.
				Area attempted to be protected.	Fires.	Actually protected.		
1	2	3	4	5	6	7.	8	9
North Arcot—*cont.*	*Central Circle*—cont.		ACS.	ACS.	ACS.	ACS.	RS.	
General-*cont.*	Basavareddipalli	1884 ..	10,190	5,952	..	5,952	..	
	Palmanér tope	1884 ..	2	2	..	2	..	
	Nagamangalam	1884 ..	31	20	..	20	..	
	Muduvaripalli	1884 ..	20	4	..	4	..	
	V. Kota tope	1884 ..	4	9	..	9	..	
	Baireddipalli tope ..	1884 ..	4	4	..	4	..	
	Melmoyi	1884 ..	960	1,568	..	1,568	..	
	Jangalapalle	1884 ..	3,124	3,034	..	3,034	..	
Palmanér ..	Pattikonda	1893 ..	4,480	5,190	..	5,190	..	
	Peddur extension	1895 ..	9,550	9,550	..	9,550	..	
	Musalimadugu extension.	1895 ..	1,849	1,849	..	1,849	..	
	Basavareddipalli A ..	1895 ..	1,760	1,760	..	1,760	..	
	Do. B ..	1895 ..	3,320	5,758	..	5,758	..	
	Alapalli	1895 ..	2,100	2,029	..	2,029	..	
	Nellipatla	1895 ..	7,680	7,705	..	7,705	..	
	Veerlabunda	1895 ..	2,620	2,611	..	2,611	..	
	Thotakanama	1895 ..	5,210	5,498	..	5,498	..	
	Total, Palmanér ..	..	52,904	52,543	..	52,543	..	
Gudiyáttam.	Tiruvallam plantation ..	1884 ..	435	431	..	431	..	
	Virinjipuram do. ..	1884 ..	260	260	..	260	..	
	Cheynur	1884 ..	130	130	..	130	..	
	Ammundi	1884 ..	160	160	..	160	..	
	Tandrayagunta	1884 ..	2	8	..	3	..	
	Vikramasi	1884 ..	161	129	..	129	..	
	Pallelakuppam	1892 ..	6,212	6,822	..	6,822	..	
	Do. extension A.	1893 ..	6,400	6,822	..	6,822	..	
	Bommanayakan Palayam.	1894 ..	925	907	..	907	..	
	Total, Gudiyáttam ..	..	14,685	15,664	..	15,664	..	
Pólúr ..	Amerdi plantation ..	1884 ..	25	25	..	25	..	
	Patrakad	1881 ..	18,000	25,254	..	25,254	..	
	Puttur	1879 ..	12,794	18,458	..	18,458	..	
	Thapalur	1884 ..	1,114	1,504	..	1,504	..	
	Alialamangalam	1884 ..	10,027	10,027	..	10,027	..	
	Santavasal extension ..	1892 ..	260	260	..	260	..	
	Total, Pólúr ..	..	42,220	55,528	..	55,528	..	
Vellore ..	Ambur tope	1884 ..	5	5	..	5	..	
	Vellore	1892 ..	997	..	..	..	..	Transferred to special protection during 1898-99.
	Total, Vellore .	..	1,002	5	..	5	..	
Wandiwāsh.	Brahmanamateri	1884 ..	635	635	..	635	..	
	Kodiyalam	1884 ..	125	125	..	125	..	
	Badur	1884 ..	783	783	..	783	..	
	Vengunam	1884 ..	1,288	1,288	..	1,288	..	
	Nambedu	1884 ..	707	707	..	707	..	
	Vishamangalam	1884 ..	1,148	1,148	..	1,148	..	
	Ponnur	1884 ..	769	769	..	769	..	
	Nedungal	1884 ..	3,280	3,280	..	3,280	..	
	Nedungunam	1884 ..	1,697	1,697	..	1,697	..	
	Nambedu extensions A, B and C	1895 ..	327	327	..	327	..	
	Total, Wandiwash ..	..	10,759	10,759	..	10,759	..	
Arcot ..	Kilminnal plantation ..	1884 ..	150	150	..	150	..	
	Saunleri	1884 ..	1,675	1,675	..	1,675	..	
	Sathur	1884 ..	709	750	..	750	..	
	Tandappanthangal ..	1884 ..	1,092	1,099	..	1,099	..	
	Enadanadi	1884 ..	1 565	1,565	..	1,565	..	
	Solavaram	1884 ..	1,143	1,143	..	1,143	..	
	Do. extension ..	1895 ..	700	874	..	874	..	
	Tandappanthangal ..	1895 ..	292	310	..	310	..	
	Total, Arcot ..	..	7,326	7,566	..	7,566	..	

Area of Forest Tracts protected from Fire during 1898-99--*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During dry season of 1899.			Cost during the season.	Remarks.
				Area attempted to be protected.	Fires.	Actually protected.		
1	2	3	4	5	6	7	8	9
North Arcot—*cont.*	*Central Circle*—cont.		ACS.	ACS.	ACS.	ACS.	RS.	
General—*cont.*	Vanniyedu plantation ..	1884 ..	30	30	..	30	..	
	Arkonam tope	1884 ..	37	37	..	37	..	
	Gudulur	1884 ..	535	535	..	535	..	
Wallajah ..	Ananthapuram	1880 ..	540	540	..	540	..	
	Ammur	1880 ..	203	203	..	203	..	
	Kolattur	1884 ..	1,729	1,729	..	1,729	..	
	Arkonam Head Assistant Collector's compound ..	1884 ..	4	4	..	4	..	
	Total, Wallajah ..	..	3,078	3,078	..	3,078	..	
	Total, General ..	..	167,772	178,567	6	178,561	..	
	Total, Special and General, North Arcot	..	703,241	766,610	3,368	763,242	4,116	
South Arcot.								
Special—Tiruvannámalai.	Annamalai reserved forest.	1878 ..	2,580	2,640	..	2,640	158	
	Kavuthi reserved forest ..	1878 ..	7,055	7,085	..	7,085	127	
	Total, Special, Tiruvannámalai	..	9,635	9,725	..	9,725	285	
Kallakurichi ..	Tagarai reserved forest ..	1883-84 ..	14,188	14,338	18	14,320	43	
	Total, Special South Arcot.	..	23,823	24,063	18	24,045	328	
General. Tiruvannámalai.	Tenmalai reserved forest.	1877 ..	31,092	31,706	105	31,601		
	Nallapet reserved forest.	1889 ..	4,687	5,094	..	5,094		
	Pelamarudur	1889 ..	5,030	5,075	..	5,075	314	
	Paramanandal	1895 ..	1,517	1,517	..	1,517		
	Mudanai	1898 ..	7,046	7,046	..	7,046		
	Valasamalai	1883-84 ..	10,759	12,369	..	12,369	136	
	Nattampalli	1889 ..	6,750	7,270	..	7,270	110	
	Perunkolattur - Swamimalai.	1883-84 ..	8,162	9,312	10	9,302	97	
	Total, General, South Arcot.	..	75,043	79,389	115	79,274	657 *+ 285	* Added as per Accountant-General's audited figure under A-VIII (*f*).
	Total, Special and General, South Arcot.	..	98,866	103,452	133	103,319	1,270	
Salem—								
General Salem West.	Vadugampatti block No. 1.	1881 ..	1,976	1,976	..	1,976	103	
	Morur block No. 2 ..	1881 ..	799	799	..	799	78	
	Ammaneri block No. 8 ..	1882 ..	252	252	..	252	43	
	Pelapallikombai block No. 7.	1882 ..	981	981	..	981	75	
	Kanjeri	1882 ..	1,929	1,929	..	1,929	74	
	Pannikaradu	1882 ..	2,645	2,645	..	2,645	47	
	Karunattuparai	1883 ..	837	837	..	837	42	
	Total, Salem, West ..	..	9,419	9,419	..	9,419	462	
Uttankarai..	Harur	1882 ..	1,176	1,176	..	1,176	56	
	Mallapuram	1882 ..	1,952	1,952	..	1,952	51	
	Kuriappukombai	1897 ..	450	450	..	450	40	
	Kouramalai coupes ..	1898 ..	..	609	..	609	11	
	Total, Uttankarai ..	..	† 3,578	4,187	..	4,187	158	† The Collector has not explained the variation in the opening balance.
Tiruppattúr.	Alangayam	1891 ..	1,972	2,082	..	2,082	11	
	Narasingapuram	1893 ..	2,000	2,000	..	2,000	32	
	Kalarapatti	1895 ..	1,490	1,840	..	1,840	36	
	Vellakuttai	1896 ..	620	620	..	620	10	
	Punkulam Coupes Nos. 1 & 2.	1895-96 ..	844	1,000	..	1,000	41	
	Andiappanur	1894 ..	1,075	1,100	..	1,100	24	
	Mambakkam	1894 ..	840	900	..	900	37	
	Govindapuram	1895 ..	1,095	1,100	..	1,100	15	
	Madakadappa	1896 ..	308	313	..	313	19	
	Singarapet Coupe and S. P. B.	1881 ..	1,960	2,000	..	* 2,000	77	
	Kottur Yelagiris	1885 ..	1,200	1,200	..	1,200	27	
	Onnakarai	1897 ..	200	300	..	300	21	
	Burgur block	1892 ..	2,000	2,000	..	2,000	66	

Area of Forest Tracts protected from Fire during 1898-99—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During dry season of 1899. Area attempted to be protected.	Fires.	Actually protected.	Cost during the season.	Remarks.
1	2	3	4	5	6	7	8	9
Salem—*cont.* General—*cont.*	*Central Circle*—cont.		ACS.	ACS.	ACS.	ACS.	RS.	
Tiruppattúr—*cont.*	Kottur block	1883 ..	2,350	2,350	..	2,350	77	
	Neralkottai	1893 ..	1,227	1,227	..	1,227	63	
	Maharajagadai	1896 ..	1,000	1,000	..	1,000	30	
	Thogarapalli	1884 ..	750	750	..	750	33	
	Total, Tirupattúr ..	..	† 20,931	21,782	..	21,782	619	† The Collector has not explained the variation in the opening balance.
Hosur ..	Melagiri block	1885 ..	5,411	5,411	..	5,411	20	
	Kanavoikottapalli block XVII.	1885 ..	742	742	..	742	4	
	Gulhatti S. P. block ..	1885 ..	3,248	3,248	..	3,248	16	
	Manchi block	1885 ..	3,155	3,155	..	3,155	16	
	Kananaragasandram-Tholuvabetta reserved forest.	1885 ..	216	216	..	216	8	
	Javalagiri S. P. block ..	1899 ..	..	‡ ..	..	‡ ..	16	‡ Area not reported.
	Noganur coupes Nos. 1 to 6.	1899 ..	..	‡ ..	..	‡ ..	8	
	Total, Hosur ..	..	12,772	12,772	..	12,772	88	
Salem, East.	Portion of Kurumbapatti reserve including coupes.	1897-98 ..	1,772	4,000	25	3,975	123	§ Added as per Accountant-General's audited figures under A-VIII (*f*). The Collector has not explained the variation.
	Kapputtu reserve coupes.	1897-98 ..	570	1,000	30	970		
	Total, Salem, East ..	..	2,342	5,000	55	4,945	123	
	Total, Salem, General ..	..	49,042	53,160	55	53,105	1,450 § + 29	
Trichinopoly—Musiri Range.	Sengattupatti	1885-86 ..	3,000	3,000	20	2,980		These blocks were in former years protected by fire lines and patrols. Since 1893-94 no money has been spent on fire lines as the Conservator and District Forest-officer considered them unnecessary.
	Manmalai	1887-88 ..	5,935	6,000	20	5,980		
	T. Kanapadi	1887-88 ..	12,000	12,000	..	12,000		
	Karuppan Kadu Thittu ..	1887-88 ..	2,000	2,000	..	2,000		
	Melur	1885-86 ..	3,000	3,000	..	3,000		
	V. Kanappadi	1887-88 ..	10,000	10,000	..	10,000		
	Palamalai	1888-89 ..	10,900	10,000	..	10,000		
	Kaliammankoil Thittu ..	1889-90 ..	1,500	1,500	5	1,495		
	Kanappadi Kannimarsolai.	1889-90 ..	2,560	2,560	..	2,560	* 150	
	Total, Musiri ..	..	49,995	50,060	45	50,015		
Perambalúr Range.	Manalodai	1885-86 ..	5,000	5,000	..	5,000		
	Sholamathi	1885-86 ..	6,000	6,000	..	6,000		
	Selaiyur	1889-90 ..	1,600	1,600		1,600		
	Puliyur	1890-91 ..	10,000	10,000	..	10,000		
	Sengathur	1890-91 ..	9,975	10,000	..	10,000		
	Total, Perambalúr ..	..	32,575	32,600	..	32,600	..	
	Total, Trichinopoly ..	..	82,570	82,660	45	82,615	150	
Tanjore ..	Tanjore	..	..	..	..	..	..	
	Total, Special, Central Circle.	..	688,263	726,179	7,206	718,973	6,154	
	Total, General, Central Circle.	..	782,116	819,916	9,522	810,394	6,488	
	Grand Total, Central Circle.	..	1,470,379	1,546,095	16,728	1,529,367	12,642	
	Southern Circle.							
South Canara General—	Sarapanamane	1886-87 ..	142	1,299	61	1,238	40	
Coondapoor Range.	Savantagudde	1896-97 ..	1,157					
	Honnekodla	1894-95 ..	507	507	..	507	29	
	Herkur	1893-94 ..	840	840	60	780	17	
	Kadike	1895-96 ..	2,784	2,781	14	2,767	32	
	Chittur	1895-96 ..	2,237	2,237	..	2,237	33	
	Karnigudde	1895-96 ..	1,190	1,190	..	1,190	32	
	Darlegudde	1893-94 ..	141	141	..	141	9	
	Herur	1893-94 ..	2,492	2,492	20	2,472	38	
	Talabur Ane	1895-96 ..	610	610	50	560	29	
	Kasanakatte	1893-94 ..	180	180	..	180	15	
	Mudurugudde	1893-94 ..	407	407	..	407	14	

* This represents the amount paid to the Malayali with whom agreements were entered into for keeping the lines clear and preserving the forests safe from fire.

Area of Forest Tracts protected from Fire during 1898–99—*cont.*

District.	Forest tracts	Year in which protection commenced.	Area protected during the previous year.	During dry season of 1898–99.			Cost during the season.	Remarks.
				Area attempted to be protected.	Fires.	Actually protected.		
1	2	3	4	5	6	7	8	9
South Canara—*cont.*	*Southern Circle*—cont.		ACS.	ACS.	ACS.	ACS.	RS.	
Coondapoo Range—*cont.*	Abbigudde	1897-98 ..	1,434	1,434	..	1,434	29	
	Baindur	1897-98 ..	6,174	6,174	210	5,964	12	
	Sabladi	1884-85 ..	208	208	..	208	6	
	Total, Coondapoor ..	..	20,500	20,500	415	20,085	335	
Udipi Range.	Chinkramale	1885-86 ..	2,879	2,879	300	2,579	37	
	Pilarkan	1883-84 ..	320	320	..	320	5	
	Manaje	1886-87 ..	423	423	..	423	11	
	Jarvattu	1894-95 ..	417	417	..	417	6	
	Mensinkan	1896-97 ..	640	640	5	635	6	
	Jatkatmale	1897-98 ..	1,500	1,500	..	1,500	30	
	Matkulgudde	1897-98 ..	259	259	..	259	4	
	Tenkahola	1886-87 ..	1,979	1,979	..	1,979	28	
	Mavinakodlu	1895-96 ..	1,900	1,900	..	1,900	35	
	Hale Someshwar ..	1895-96 ..	1,294	1,294	..	1,294	10	
	Huvakladi	1895-96 ..	639	639	..	639	28	
	Durgamale	1897-98 ..	1,580	1,580	10	1,570	26	
	Total, Udipi ..	..	13,830	13,830	315	13,515	226	
Mangalore Range.	Hospet	1889-90 ..	350	350	8	342	22	
	Todar	1889-90 ..	372	372	6	366	20	
	Mujimale	1894-95 ..	2,495	2,495	..	[2,495	15	
	Chembugudde	1884-85 ..	75	75	..	75	..	
	Kuthiar	1884-85 ..	25	25	..	25	..	
	Poitaje and Kayarpalla ..	1885-86 ..	90	90	..	90	..	
	Naninje	1897-98 ..	1,466	1,466	7	1,459	17	
	Total, Mangalore ..	..	4,873	4,873	21	4,852	74	
Uppinangadi Range.	Darmasthala	1887-88 ..	4,545	4,545	..	4,545	77	
Puttur Range.	Parappa	1895-96 ..	2,410	2,410	..	2,410	38	
	Veerakamba	1897-98 ..	1,683	1,683	..	1,683	9	
	Kaianjimale	1898-99 ..	..	7,680	..	7,680	16	New area added.
	Pumale	1897-98 ..	7,680	..	..	..	..	Not protected this year.
	Total, Puttur ..	..	11,773	11,773	..	11,773	63	
	Total, General, South Canara.	..	55,521	55,521	751	54,770	775 * 2	* Sundries.
North Malabar. Special— Begur Range.	Begur	1882-83 ..	1,962	4,100	1,900	2,200	517	
Chedaleth ..	Kurchiyat	1887-88 ..	5,965	6,025	6,025	..	329	
Kanoth ..	Kanoth teak, bamboo, &c. plantations	1894-95 ..	224	264	..	264	49	
	Total, Special ..	..	8,151	10,389	7,925	2,464	895	
General— Begur ..	Tirunelli	1894-95 ..	5,474	5,474	474	5,000	..	Sholas protected by burning grass.
	Begur	1882-83 ..	..	12,000	12,000	..	..	
	Total, Begur ..	..	5,474	17,474	12,474	5,000	..	
Chedaleth.	Kurchiyat	1887-88 ..	..	12,029	12,029	..		
	Mavanhulla	1894-95 ..	..	12,577	12,577	..	..	
	Rampur	1894-95 ..	..	18,854	18,854	..	..	
	Total, Chedaleth ..	..	..	43,460	43,460	..	..	
Kanoth ..	Kanoth teak, &c., plantations.	1894-95 ..	..	6,400	..	6,400	..	
	Total, General ..	..	5,474	67,334	55,934	11,400	1 8	† Added as per Accountant-General's audited figures.
	Total, Special and General North Malabar.	..	13,625	77,723	63,859	13,864	913	

Area of Forest Tracts protected from Fire during 1898-99—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During dry season of 1899.			Cost during the season.	Remarks.
				Area attempted to be protected.	Fires.	Actually protected.		
1	2	3	4	5	6	7	8	9
South Malabar.	*Southern Circle*—cont.		ACS.	ACS.	ACS.	ACS.	RS.	
Special—								
Nilambur Range.	Amarampalem reserve ..	1860-61 ..	468	468	..	468	70	
	Chathamborai reserve ..	1872-73 ..	700	700	..	700	140	
	Teak plantations	1842-43 ..	3,507	3,517	..	3,517	632	
	Edakode natural forests ..	1898-99 ..	..	50	..	50	15	
	Total, Nilambur ..	..	4,675	4,735	..	4,735	857	
Amaram-palam Range.	Karimpaya reserve ..	1884-85 ..	3,955	4,035	..	† 4,035	175	† Includas 160 acres of teak plantations.
	Nellikutta do. ..	1883-84 ..	1,824	1,824	..	1,824	135	
	New Amarampalam reserve	1889-90 ..	75,000	75,000	..	75,000	190	
	Total, Amarampalam ..	..	80,779	80,859	..	80,859	500	
Palghat Range.	Walayar reserve ..	1873-74 ..	3,017	3,017	‡ ..	3,017	509	‡ One-fourth of an acre.
	Chenat Nair do. ..	1884-85 ..	15,203	15,203	6	15,197	415	
	Tamparathi pottai reserve.	1891-92 ..	124	..	..	..	..	Not protected during the year.
	Dhoni reserve	1898-99 ..	..	45	..	45	15	
	Total, Palghat ..	..	18,344	18,265	6	18,259	939	
	Total, Special, South Malabar.	..	103,798	103,859	6	103,853	2,296	
The Nilgiris.	Mudumalai teak plantations.	1883 ..	52	25	..	25	698	
	Benne teak plantation ..	1886 ..	40	40	40	..		
	Benne experimental block.	1893 ..	179	179	..	179		
	Marigudi block	1888 ..	§ 2,781	2,781	..	2,781		§ In previous years the area was given incorrectly as 4,480 acres.
	Marigudi block Nos. IV and V.	1898 ..	..	2,686	..	2,686		
	Moyar reserved forest ..	1886 ..	4,000	4,000	450	3,550	194	
	Northernhay Sandalwood plantation.	1883 ..	22	180	..	180		
Special ..	Chemmanguli	1883 ..	25	25	..	25	270	
	Arvakal	1883 ..	9	9	..	9		
	Governor's shola No. I ..	1883 ..	25	25	..	25		
	Do. No. II ..	1883 ..	30	30	..	30		
	Andi	1883 ..	17	17	..	17		
	Upatti	1883 ..	12	12	..	12		
	Sheffield	1883 ..	25	25	..	25		
	Culli	1883 ..	17	17	..	17		
	Chowghat Culli	1883 ..	26	26	..	26		
	Madana	1883 ..	8	8	..	8		
	Baikie	..	50	50	..	50		
	Arambi	..	430	430	1	429		
	Marlimund	..	11	11	..	11		
	Cairn hill	..	405	405	..	405		
	Muthanad	1898 ..	..	80	..	80	582	
	Kallar reserve	1883 ..	919	919	8	911		
	Burliyar	1883 ..	178	178	..	178		
	Ghaut reserve	1883 ..	247	247	5	242		
	Coonoor peak	1883 ..	259	259	..	259		
	Bandishola	1883 ..	111	111	..	111		
	Sim's park block No. I ..	1883 ..	48	48	..	48		
	Blackbridge plantation ..	1883 ..	40	40	..	40		
	Little Rallia	1883 ..	10	10	..	10		
	Newman	1883 ..	35	35	1	34		
	Rallia Ecotics	1883 ..	60	95	..	95		
	Long wood and addition ..	1885 ..	350	350	..	350		
	Devashola plantation ..	1883 ..	4	4	..	4		
	Kunjapanai sandalwood ..	1898 ..	..	640	..	640		
	Total, Special ..	..	* 10,398	13,997	505	13,492	1,744	
General.	Ulnad	1883 ..	838	839	..	839	145	
	Mukurti	1888 ..	1,324	1,324	..	1,324		
	Kurumund	1883 ..	1,552	1,552	..	1,552		
	Kundah	1885 ..	42,505	42,505	..	42,505		
	Pichelbettu	1886 ..	1,668	1,668	..	1,668		
	Kadkupa	1886 ..	1,622	1,622	..	1,622		
	Nanjanad	1893 ..	914	914	..	914		
	Karpakan	1886 ..	391	391	..	391		
	Vellingiri	1886 ..	643	643	..	643		
	Pykara	1883 ..	844	844	..	844		

* This is the area attempted to be protected last year. As the details of individual blocks actually protected during the last year is not available in the Board's office, the Collector's figure has been adopted.

Area of Forest Tracts protected from Fire during 1898-99—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During dry season of 1898-99.			Cost during the season.	Remarks.
				Area attempted to be protected.	Fires.	Actually protected.		
1	2	3	4	5	6	7	8	9
Nilgiris—*cont.*	*Southern Circle*—cont.		ACS.	ACS.	ACS.	ACS.	RS.	
	Yemmaikal	1883 ..	465	465	..	465		
	Hiriashige	1887 ..	3,026	3,026	..	3,026		
	Thiasholai	1885 ..	1,551	1,551	..	1,551		
	Muthanad	1883 ..	* 420	340	..	340		
	Bikkapathi	1894 ..	1,945	1,945	..	1,945		
	Naduvattam	1885 ..	3,411	3,411	..	3,411		
	Ouchterlony	1886 ..	973	973	..	973		
	Nilgiri Peak	..	5,962	5,962	..	5,962		
	Chinnacoonoor	1894 ..	14	14	..	14		
	Kengal	..	14	14	..	14		
	Kadanad	1895 ..	40	40	..	40		
	Huppatti	..	491	491	..	491		
General—*cont*	Kaguchi	..	475	475	..	475	145	
	Iduhatti	..	15	15	..	15		
	Butheri shola	1884 ..	34	34	..	34		
	Dodabetta	..	758	758	..	758		
	Jakuntha	..	373	373	..	373		
	Honnathalai	..	320	320	..	320		
	Keraiyada	..	276	276	..	276		
	Kengodu	..	451	451	..	451		
	Brookland	..	177	177	..	177		
	Lovedale east	..	127	127	..	127		
	Benhope reserve	1885 ..	75	75	..	75		
	Black bridge	1883 ..	350	350	..	350		
	Devashola north and south.	1883 ..	211	211	..	211		
	Total, General ..	..	74,256	74,176	..	74,176	145	
	Total, Nilgiris ..	..	84,654	88,173	505	87,668	1,889	
Coimbatore (North).	Hassanur sandalwood compartment—Satyamangalam Range.	1895-96 ..	2,098	2,098	1	2,097	127	
	Bylur sandalwood compartment — Kollegal Range.	1895-96 ..	2,475	2,475	4	2,471	159	
	Odiarpalayam sandalwood compartment—Kollegal Range.	1895-96 ..	1,504	1,504	4	1,500	109	
	Jadathadihulla sandalwood compartment — Kollegal Range.	1895-96 ..	215	218	42	176	77	
	Total ..	..	4,194	4,197	50	4,147	345	
Special—	Badagalli sandalwood compartment — Talamalai Range.	1896-97 ..	* 685	685	..	685	..	* The correct area is now entered.
	Talamalai sandalwood compartment — Talamalai Range.	1897-98 ..	589	589	..	589	10	
	Ramaranai sandalwood compartment — Ramaranai Range.	1897-98 ..	1,122	..	..	..	..	Presumably not protected this year as the Collector's return excludes it.
	Total ..	..	2,396	1,274	..	1,274	10	
	Total, Special, Coimbatore (North).	..	8,688	7,569	51	7,518	482	
Coimbatore (South)— Special— Tunacadavu.	Tekadi leased forests and portion of Tunacadavu reserve No. I.	1882-83 ..	13,574	26,374	400	25,974	937	
Pollachi ..	Punachi reserve No. II ..	1888-89 ..	2,827	2,880	..	2,880	319	
Udamalpet..	Dhali block	1883-84 ..	485	485	..	485	82	
Mettupalayam.	Singaratope W. C. of Odanthorai block.	1891-92 ..	777	777	..	777	78	

* Of this 80 acres were transferred to special protection during the year.

Area of Forest Tracts protected from Fire during 1898–99—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During dry season of 1898-99.			Cost during the season.	Remarks.
				Area attempted to be protected.	Fires.	Actually protected.		
1	2	3	4	5	6	7	8	9
	Southern Circle—cont.		ACS.	ACS.	ACS.	ACS	RS.	
Bolampatti (Block I).	Sholakarai	1883-84..	43,793	1,157	..	1,157	637	
	Thenkaradu			393	..	393		
	Keeripatti			2,260	..	2,260		
	Oratti			1,136	..	1,136		
	Kuchimalai			1,545	..	1,545		
Bolampatti (Block II).	Noyel	1883-84..		10,920	..	10,920		
	Velliyangiri			5,240	..	5,240		
	Varadimudi			7,960	..	7,960		
	Kanavarai			13,880	..	13,880		
	Total, Special ..	..	* 61,456	75,007	400	74,607	2,053	* Revised figure.
General—								
Tunacadavu and Pollachi.	Tunacadavu reserve No. I.	..	..	256,544	..	256,544	..	
Pollachi ..	Punachi reserve No. II.	..	..					
Udamalpet ..	Amravati ,, ,, III.	..	..					
Tunacadavu, Pollachi, and Udamalpet.	Anamalai ,, ,, IV.	..	..					
Bollampatti.	Bolampatti ,, ,, I.	..	..	74,694	..	74,694	..	
	Do. ,, ,, II.	..	..					
	Do. ,, ,, III.	..	..					
Bolampatti and Méttupálayam.	Tadayam ,, ,, IV.	..	..					
	Gopanari ,, ,, V.	..	..					
Méttupálaiyam.	Kempampalayam reserve No. VI.	..	..					
	Nellithorai reserve No. VII.	..	..					
Bolampatti.	Small Sholakarai reserve No X.	..	..					
Méttupálaiyam.	Odanthorai reserve No VIII.	..	..	5,335	..	5,335	..	
	Modur reserve No. IX ..	..	..	5,805	..	5,805	..	
Udamalpet ..	Elayamuthur reserve ..	..	..	762	..	762	..	
	Dhali reserve	..	..	145	..	145	..	
	Total, General ..	..	355,104	343,285	..	343,285	..	
	Total, Special and General, Coimbatore (South).	..	416,560	418,292	400	417,892	..	
Madura—	Mela Gudalur	1885-86 ..	1,093	..	..	..	..	
	Vannathiparai	1884-85 ..	4,440	24,557	400	24,157	118	
	Gundan shola plantation.	1886-87 ..	335	257	15	242	130	
	Poombarai Vilpatti Valley.	1884-85 ..	17,174	17,594	..	17,594	53	
	Aliyanuthu	1888-89 ..	4,352	4,352	..	4,352	28	
	Kudarayar	1886-87 ..	9,395	13,235	..	13,235	233	
	Kookal	1886-87 ..	..	11,725	..	11,725	45	
	Amburani	1886-87 ..	10,641	13,971	..	13,971	266	
	Shengalvarayar	1885-86 ..	4,608	7,098	..	7,098	154	
	Karungal Dhoni Medu ..	1885-86 ..	..	3,469	..	3,469	24	
	Pambar	1883-84 ..	..	4,741	..	4,741	224	
Special ..	Adukam	1885-86 ..	2,400	7,520	..	7,520	531	
	Perumal Malai	1886-87 ..	..	2,032	..	2,032	70	
	Kallar	1885-86 ..	2,172	..	..	..	..	
	Arunkaval	1883-84 ..	1,261	..	..	..	..	
	Vannilai	1885-86 ..	1,800	..	..	..	..	
	Kaniankadu	1885-86 ..	1,560	..	..	..	..	
	Marudanadiyar	1885-86 ..	3,523	..	..	..	..	
	Wahuthumalai	1884-85 ..	5,860	..	..	..	24	
	Sirumalai	1885-86 ..	20,446	..	..	..	104	
	Alagar Hill	1882-83 ..	16,818	16,838	..	16,838	512	
	Karandamalai	1887-88 ..	20,860	..	..	..	80	
	Perumalai	1891-92 ..	6,087	..	..	..	34	
	Mudimalai	1884-85 ..	4,235	..	..	..	16	
	Total, Special ..	..	139,060	127,389	415	126,974	2,746 + 10	Amount spent in putting out fires.

RS.
Amount spent from July 1898 to December 1898 .. 389
Amount spent from January to June 1899 2,357
Miscellaneous for putting out fires 10
Total .. 2,756

Area of Forest Tracts protected from Fire during 1898-99—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During dry season of 1898-99.			Cost during the season.	Remarks.
				Area attempted to be protected	Fires.	Actually protected.		
1	2	3	4	5	6	7	8	9
	Southern Circle—cont.		ACS.	ACS.	ACS.	ACS.	RS.	
Madura—*cont.*								
General ..	Thoppaswami Malai ..	..	9,080	..	..	..	..	
	Gallnut block, Machoor ..	..	6,400	..	..	..	..	
	Vannathiparai	..	19,477	..	..	..	..	
	Total, General ..	..	34,957	..	..	..	..	
	Total, Special and General, Madura.	..	174,017	127,389	415	126,974	2,756	
Tinnevelly—								
Special—	Padarmalai Working Circle.	1895-96 ..	3,045	405	..	405	38	
Ambásamudram.	Panniamaduku Working Circle.	1896-97 ..	1,018	218	8	210	..	
	Koilterai Working Circle.	1896-97 ..	1,936	335	100	235	..	
	Sivasailam Working Circle	1896-97 ..	3,154	241	..	241	..	
	Total, Ambásamudram ..	..	9,153	1,199	108	1,091	38	
Nangunéri ..	Kalakad Working Circle ..	1896-97 ..	2,918	689	..	689	20	
	Tirukurungudi Working Circle.	1897-98 ..	2,538	47	..	47	..	
	Total, Nangunéri ..	..	5,456	736	..	736	20	
Tenkási ..	Courtallam Working Circle.	1896-97 ..	1,852	358	69	289	22	
	Kadayanallur Working Circle.	1897-98 ..	1,899	219	10	209	11	
	Total, Tenkási ..	..	3,751	577	79	498	33	
Sankaranayinárkovil.	Karuppasamikovil Working Circle.	1897-98 ..	6,155	368	6	362	..	
Srívilliputtúr.	Rangarkovil Working Circle.	1896-97 ..	2,265	422	..	422	..	
	Aiyanarkovil Working Circle.	1896-97 ..	4,286	945	6	939	24	
	Valaikulam Working Circle.	1896-97 ..	1,145	331	..	331	..	
	Muthaliarutha rest-house and forest guards lines.	1897-98 ..	..	320	..	320	15	
	Total, Srivilliputtur ..	..	7,696	2,018	6	2,012	39	
	Total, Special ..	..	32,211	4,898	199	4,699	130	
General—								
Ambásamudram.	Ghaut forests II and II-(*b*)	..	77,782	86,872	2,518	84,354	82	
	Do. II-(*a*) ..	..	2,177	2,187	70	2,117		
Nangunéri ..	Do. I and I-(*a*).	..	47,174	52,919	316	52,603	106	
Tenkási ..	Ghaut forests III, III-(*a*) (*b*), (a_1), (a_2), (*d*) and Chinnakadu.	..	19,214	24,282	1,569	22,713	81	
Sankaranayinárkóvil.	Ghaut forests IV and IV(*a*)	..	20,779	27,321	137	27,184	10	
Srívilliputtúr.	Do. V and V-*a*..	..	34,715	41,272	998	40,274	293	
	Total, General ..	..	201,833	234,853	5,608	229,245	572 — 256	Deducted as per Accountant-General's audited figures.
	Total, Special and General, Tinnevelly.	..	234,050	239,751	5,807	233,944	446	
	Total Southern Circle—							
	Special	..	363,762	343,108	9,501	333,607	10,356	
	General	..	727,151	775,169	62,293	712,876	1,256	
	Grand Total, Southern Circle.	..	1,090,913	1,118,277	71,794	1,046,483	11,612	
	Total, Presidency—							
	Special	..	1,190,396	1,190,762	24,372	1,166,390	21,179	
	General	..	2,013,886	2,089,763	94,147	1,995,616	12,353	
	Grand Total Presidency.	..	3,204,282	3,280,525	118,519	3,162,006	34,532	

N.B.—Where Collectors have not reported the figures separately for special areas, they are shown under "general."

ANNUAL FORM No. 52.

Forest Department, Madras Presidency.

AREA closed and open to Grazing during 1898-99.

District.	Area in square miles.						
	Closed to all animals.		Closed to both goats and sheep.		Closed to goats only.	Open to all animals.	Total forest area as per Form No. 44.
	Whole year.	Part of year.	Whole year.	Part of year.		Whole year.	
1	2	3	4	5	6	7	8
Northern Circle.							SQ. MLS.
Ganjám	113	..	..	..	415 123	..	415 123
Vizagapatam	1	..	142 212	..	..	..	142 212
Gódávari	..	..	..	..	866 90	..	866 90
Kistna	164 5	..	..	..	605 293	143 103	748 396
Kurnool	101	..	..	..	2,002 609	2 287	2,004 896
Bellary	83	..	..	..	150	461	611
Anantapur	37	..	..	..	500 7	..	500 7
Total ..	504	..	354	..	5,660	996	7,010
Central Circle.							
Cuddapah	8	..	..	..	2,388	* 65	1,855 598
Nellore	7	..	..	..	634 56	* 18	652 56
Chingleput	29	..	..	..	202	* 13	210 5
North Arcot	96 2	43 9	..	..	1,157 67	* 12	1,169 67
South Arcot	15	..	..	..	685 24	..	685 24
Salem	63	..	..	..	1,408	* 15	1,237 186
Trichinopoly	21 1	8 ..	..	..	216 107	..	216 107
Tanjore	1	..	..	..	18	† ..	18
Total ..	243	60	..	..	6,962	* 123	7,085
Southern Circle.							
South Canara	15 1	..	284 811	..	..	..	284 811
Malabar, North	52	..	159 113	..	..	..	159 113
Do. South	190 138	..	190 138	..	..	..	190 138
The Nilgiris	4 6	..	..	..	358 133	..	358 133
Coimbatore, North	115	..	5	..	1,056 557	..	1,061 557
Do. South	265	..	..	..	654 3	..	654 3
Madura	29	2	..	..	572 37	..	572 37
Tinnevelly	262	70	..	..	417 12	..	417 12
Total ..	1,077	72	1,700	..	3,799	..	5,499
Grand Total, Presidency ..	1,824	132	2,054	..	16,421	996 * 123 1,119	19,594

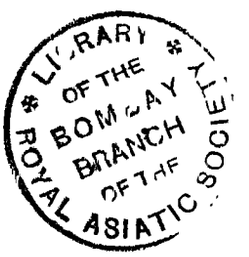
* Reserved for goats.

† Goats were allowed in 168 acres in Vettangudi reserved forest.

N.B.—The totals of columns 4, 6 and 7 equal column 8. The figures in columns 6 and 4 include the figures in columns 2 and 3. Of the figures in brackets the upper one denotes area of reserved forests and the lower the area of reserved lands.

FORM No. 53.

RETURN of Grazing in the State Forests of the Madras Presidency during 1898–99.



FORM

RETURN of Grazing in the State Forests of the

(a) *Reserved forests notified under*

Districts.	Grazing on payment. Number of animals.									
	At enhanced rates.					At full rates.				
	Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Fees received.	Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Fees received.
Northern Circle.					Rs.					Rs.
Ganjám	..	..	..	..	..	4,201	21,575	(a) 137	..	5,634
Vizagapatam (b)	..	..	..	..	..	837	13,430	..	..	2,844
Gódávari (c)	752	2,386	..	..	1,459	..	..	..	..	..
Kistna (b)	..	..	..	..	..	31,122	116,611	268,211	163	58,710
Kurnool (d)	1,482	50,891	3,794	..	13,938	1,768	25,608	33,941	..	8,646
Bellary	..	..	..	..	..	4,781	22,944	125,868	..	17,895
Anantapur	..	..	..	..	..	1,475	30,704	(a) 13,032	..	7,532
Total, Northern Circle	2,234	53,277	3,794	..	15,397	44,184	230,872	441,189	163	1,01,261
Central Circle.										
Cuddapah (b)	..	..	..	..	..	5,522	125,261	140,710	..	38,749
Nellore	..	..	..	..	..	7,276	58,134	152,596	..	27,935
Chingleput	..	(g) 149	..	..	37	2,915	32,305	61,640	..	12,929
North Arcot	..	..	..	..	..	2,664	88,723	(a) 54,726	..	22,766
South Arcot (i)	..	22,563	(a) 191	..	5,665	3,188	60,184	(a) 97,124	..	21,585
Salem (m)	..	..	..	..	..	2,465	170,832	52,077	..	33,863
Trichinopoly	..	..	..	..	..	256	13,204	(a) 23,863	..	4,809
Tanjore	..	..	..	..	..	167	1,149	4,304	3	682
Total, Central Circle	..	22,712	191	..	5,702	24,453	549,797	587,040	3	1,68,318
Southern Circle.										
South Canara	..	..	..	..	..	1,280	8,919	..	..	2,152
North Malabar	..	..	..	..	..	1,737	3,920	..	..	1,386
South Malabar (j)	..	..	..	..	..	..	..	..	..	..
The Nilgiris	..	..	..	..	..	7,999	18,657	615	91	6,585
North Coimbatore	7,234	143,226	(a)21,785	132	(l) 42,084	..	..	..	..	..
South Coimbatore	..	..	..	..	..	433	29,594	(a) 6,341	..	6,306
Madura (l)	230	37,737	(a)17,497	13	11,740	..	..	..	..	..
Tinnevelly	..	..	..	..	..	523	16,865	22,537	..	5,471
Total, Southern Circle	7,464	180,963	39,282	145	53,824	11,972	77,955	29,493	91	21,900
Grand Total, Reserved Forest, Presidency	9,698	256,952	43,267	145	74,923	80,609	858,624	1,057,722	257	2,91,479

N.B.—Full rates are the ordinary sanctioned

(a) Sheep. (b) Details for reserved forests and reserved lands have not been shown separately by the Collector ;
(c) The privileged rates are As. 4 per buffaloe, As. 2 per bull or cow and Anna 1 per sheep in the main division ; As. 2 per buffaloe, Telegas. The enhanced rates are As. 12 per buffaloe and As. 6 per cow or bull. (d) Enhanced rate for grazing tracts inside " Sim's
(e) The numbers represent the cattle admitted free in the Yernagudem Range. Free grazing was also allowed to Koyas and Reddies in be not available. (f) As. 2 per cow and Anna 1
(g) As. 4 being foreign cattle. (h) In the Javadies As. 4
(i) The enhanced rates of As. 4 per cow and As. 2 per sheep were levied on foreign cattle. In some of the firewood coupes free
(j) Grass is cut and no grazing fee levied. Rs. 110 were realized during the year for the right to cut and remove grass from the Chenat
(k) As. 3 per hundred per diem for the pack bulls and cows of travelling tribes and merchants conveying grain from place to
(l) The enhanced rates charged were As. 8, 4 and 2 for buffaloes, cows and sheep, respectively. At this rate the fees should amount
(m) In the two ranges of Dharmapuri and Hosur increased rates of As. 8 per buffaloe and As. 4 per bull or cow were levied for part of Rs. 354 were also realized by sale of grass and grazing contract.

No. 53.

Madras Presidency during 1898–99.

section 16 *of the Forest Act.*

Grazing free. Number of animals.																	Grand total of value at full and enhanced rates.
At privileged rates.						By right under settlement.					During pleasure of Government or otherwise than under settlement.						
Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Fees received. Actual.	Fees received. Value at full rates.	Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Value of fees at full rates.	Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Value of fees at full rates.	Total value of fees at full rates for animals grazed free.	
				Rs.	Rs.					Rs.					Rs.	Rs.	Rs.
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5,634
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2,844
12,718	45,886	(*a*)9,179	..	7,962	14,233	..	..	..	..	..	(*e*)159	1,557	..	..	351	351	16,043
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	58,710
..	..	..	..	..	..	..	2,360	5,185	..	928	..	..	..	..	..	928	23,512
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	17,895
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7,532
12,718	45,886	9,179	..	7,962	14,233	..	2,360	5,185	..	928	159	1,557	..	..	351	1,279	1,32,170
..	(*f*) 48	94	..	12	18	..	1,900	..	..	356	..	..	..	..	..	356	39,12 3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	27,935
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	12,966
(*h*) 281	1,717	10	..	285	428	..	..	..	..	..	..	..	..	..	..	..	23,194
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	27,250
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	38,863
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4,809
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	682
281	1,765	104	..	297	446	..	1,900	..	..	356	..	..	..	..	..	356	1,74,822
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2,152
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1,386
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	(*k*)3,104	..	..	47	582	..	..	..	..	..	..	..	..	..	..	..	7,167
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	42,084
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6,306
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	11,740
..	..	..	..	..	..	..	..	..	..	..	25	304	..	..	66	66	5,537
..	3,104	..	..	47	582	..	..	..	..	..	25	304	..	..	66	66	76,372
12,999	50,755	9,283	..	8,306	15,261	..	4,260	5,185	..	1,284	184	1,861	..	..	417	1,701	3,83,364

maxima, viz, As. 6 for buffaloes, &c.

in Kistna particulars could not be given as in the parcels, reserved forests and lands are mingled.

Anna 1 per bull or cow and pies 6 per sheep in the sub-division; As. 2 per head of delta cattle and Anna 1 on cattle owned by line" are Rs. 2, 1 and As. 8 per buffaloe, cow and goat or sheep respectively, but quarterly permits at ¼ rate are being issued.

the agency reserves of Rajahmundry and Peddapuram ranges but the statistics regarding the number of cattle to admitted are reported to per goat or sheep.

for buffaloes, As. 2 for cows and Anna 1 for sheep were charged.

grazing was allowed on account of drought, but no particulars as to number of cattle admitted are reported to be available.

Nair and Walayar reserves.

place. Rs. 431 were also realized by grazing contract.

to Rs. 42,180 and not 42,084 in North Coimbatore. The Collector has, not however, explained the variation.

the grazing season but no particulars as to number of cattle admitted at these rates have been reported by the Collector separately

FORM

Return of Grazing in the State Forests of the

(b) *Reserved*

Districts.	Grazing on payment. Number of animals.									
	At enhanced rates.					At full rates.				
	Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Fees received.	Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Fees received.
Northern Circle.					RS.					RS.
Ganjám	..	..	..	..	..	1,726	4,005	(a) 615	..	1,456
Vizagapatam	..	..	..	..	..	..	..	..	..	..
Gódávari	..	..	..	..	..	..	..	..	..	..
Kistna	..	..	..	..	..	..	..	..	..	..
Kurnool	..	..	..	..	..	3,698	33,893	51,191	..	12,541
Bellary (a)	11	663	..	..	163	422	2,349	9,870	..	1,524
Anantapur	..	..	..	..	..	45	205	..	..	55
Total, Northern Circle ..	11	663	..	..	163	5,891	40,452	61,676	..	15,576
Central Circle.										
Cuddapah	..	..	..	..	..	..	..	..	..	..
Nellore	..	..	..	..	..	660	1,540	2,557	..	776
						(c) 1,479	6,559	20,996		(d) 3,753 2,007
Chingleput	..	..	..	..	..	..	..	..	..	..
North Arcot	..	..	..	..	..	122	4,784	(a) 2,456	..	1,173
South do.	..	..	..	..	..	22	2,503	(a) 1,455	..	614
Salem	..	..	..	..	..	332	13,767	196	..	2,724
Trichinopoly	..	..	..	..	..	84	3,394	(a) 18,096	..	2,364
Tanjore	..	..	..	..	..	..	..	..	..	..
Total, Central Circle ..	..	..	..	..	..	2,699	32,547	45,756	..	13,411
Southern Circle.										
South Canara	..	..	..	..	..	1,920	13,380	..	..	3,229
North Malabar	..	..	..	..	..	..	..	..	..	..
South do.	..	..	..	..	..	..	..	..	..	..
The Nilgiris	..	..	..	..	..	212	398	..	..	154
North Coimbatore	..	..	..	..	..	..	..	..	..	..
South do.	..	..	..	..	..	..	925	..	..	(f) 173
Madura	..	1,063	(a) 80	..	276	..	..	..	..	..
Tinnevelly	..	..	..	..	..	31	691	(a) 812	..	217
Total, Southern Circle ..	..	1,063	80	..	276	2,163	15,394	812	..	3,773
Grand Total, Reserved Lands, Presidency ..	11	1,726	80	..	439	10,753	88,393	108,244	..	32,760
Northern Circle, Reserved Forest and Reserved Lands	2,245	53,940	3,794	..	15,560	50,075	271,324	502,865	163	1,16,837
Central Circle, Reserved Forest and Reserved Lands	..	22,712	191	..	5,702	27,152	582,344	632,796	3	181,729
Southern Circle, Reserved Forest and Reserved Lands	7,464	182,026	39,362	145	54,100	14,135	93,349	30,305	91	25,673
Grand Total, Presidency ..	9,709	258,678	43,347	145	75,362	91,362	947,017	1,165,966	257	324,239

(a) Sheep.

		Buffaloes. RS. A. P.	Bulls, &c. RS. A. P.
(b)	Ramandrug range	0 8 0	0 4 0
	North-east range	0 8 0	0 6 0
	Donimalai	0 6 0	0 4 0

No. 53—*cont.*

Madras Presidency during 1898–99—*cont.*

Lands.

At privileged rates.						Grazing free. Number of animals.										Grand total of value at full and enhanced rates.
				Fees received.		By right under settlement.					During pleasure of Government or otherwise than under settlement.					
Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Actual.	Value at full rates.	Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Value of fees at full rates.	Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Value of fees at full rates.	Total value of fees at full rates for animals grazed free.	
				Rs.	Rs.					Rs.					Rs.	Rs.	Rs.
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1,456
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2,232	7,296	(a) 18	..	1,277	2,206	..	..	..	..	..	(g)394	4,818	..	..	1,051	1,051	3,257
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	12,541
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1,687
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	55
2,232	7,296	18	..	1,277	2,206	..	..	..	..	..	394	4,818	..	..	1,051	1,051	18,996
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6,536
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1,173
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	614
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2,724
..	..	(a) 150	..	7	14	..	..	..	..	..	..	..	..	..	..	..	2,378
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	150	..	7	14	..	..	..	..	..	..	..	..	..	..	..	13,425
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3,229
..	900	..	..	(e)100	169	..	..	..	..	..	..	..	..	..	..	..	169
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	2,008	..	..	..	753	..	..	..	..	..	753	907
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	173
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	276
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	217
..	900	..	..	100	169	2,008	..	..	..	753	..	..	..	..	..	753	4,971
2,232	8,196	168	..	1,384	2,389	2,008	..	..	..	753	394	4,818	..	..	1,051	1,804	34,668
14,950	53,182	9,197	..	9,239	16,439	..	2,360	5,185	..	928	553	6,375	..	..	1,402	2,330	1,51,166
281	1,765	254	..	304	460	..	1,900	..	..	356	..	..	..	..	..	356	1,88,247
..	4,004	..	..	147	751	2,008	..	..	..	753	25	304	..	..	66	819	81,343
15,231	58,951	9,451	..	9,690	17,650	2,008	4,260	5,185	..	2,037	578	6,679	..	..	1,468	3,505	4,20,756

(*c*) On unreserved lands. (*d*) Kancha rent. (*f*) Besides, Rs. 244 were realized by grazing contract.
(*e*) Lease granted to Mr. MacDonald, a planter at Kurtikulam, for grazing not more than 900 cattle in the adjoining reserves.
(*g*) The numbers represent the cattle admitted free in the Yernagudem range.

ANNUAL FORM No. 54.

Forest Department, Madras Presidency.

AREA of Plantations, Cultural Operations and Topes, 1898-99.

District.		Number of plantations and topes.	Area in acres. On 1st July 1898.	Area in acres. Added during the year.	Area in acres. Excluded during the year.	Area in acres. Area on 30th June 1899.	Receipts. Of the year.	Charges. Of the year.
1		2	3	4	5	6	7	8
			A. Regular Plantations.					
							RS.	RS.
Northern Circle.	Ganjám	1	348	..	..	348	28	939
	Gódávari	2	421	..	..	421	958	887
	Kistna	19	1,702	220	..	1,922	719	2,400 (a) —347
	Total, Northern Circle ..	22	2,471	220	..	2,691	1,705	3,879
Central Circle.	Cuddapah	..	..	..	..	..	..	(b) 441
	Nellore	2	19	207	..	226	..	2,899
	Chingleput	2	86	..	..	86	15	460
	North Arcot	6	1,048	117	4	1,161	..	766
	South Arcot	12	8,618	..	8	8,610	7,020	2,214
	Tanjore	4	539	..	..	539	1,900	1,285
	Total, Central Circle ..	26	10,310	324	12	10,622	8,935	8,065
Southern Circle.	South Canara	3	183	..	88	95	500	103 +(a) 17
	North Malabar	(c) 7	327	91	10	408	..	441
	South do.	19	4,640	80	..	4,720	19,098	7,033 (a)— 76
	The Nilgiris	22	1,610	35	..	1,645	10,845	253
	South Coimbatore	4	28	..	..	28	..	..
	Madura	(c) 5	233	40	(d) 7	266	..	729
	Tinnevelly	1	..	(e) 25	..	25	..	..
	Total, Southern Circle ..	61	7,021	271	105	7,187	30,443	8,500
	Grand Total, Regular Plantations Presidency.	109	19,802	815	117	20,500	41,083	20,444
			B. Cultural Operations.					
Northern Circle.	Direction	..	..	..	..	..	..	(a)+ 350
	Ganjám	..	404	..	..	404	21	156
	Vizagapatam	..	..	..	..	..	..	(a)+ 118
	Kistna	..	65	..	..	65	1	405
	Kurnool	..	..	..	..	..	..	80
	Bellary	..	154	193	85	262	..	916 (a)+ 300
	Anantapur	..	22	83	(f) 4 (g) 69	32	..	387
	Total, Northern Circle ..	..	645	276	158	763	22	2,712
Central Circle.	Cuddapah	..	596	..	..	596	28	193 (a)+ 134
	Nellore	..	1,136	..	..	1,136	..	(a)+ 529
	Chingleput	..	250	..	..	250	384	89 (a)+ 5
	North Arcot	..	1,252	1	137	1,116	..	1,725
	South Arcot	..	..	..	..	..	..	(a)+ 98
	Salem	..	..	..	..	..	..	(a)+ 36
	Trichinopoly	..	104 MLS. 90	..	(d) 80	24 MLS. 90	1,118	(a)+ 1,006
	Tanjore	..	1,076	..	..	1,076	..	..
	Total, Central Circle ..	..	4,414 MLS. 90	1	217	4,198 MLS. 90	1,530	3,815
Southern Circle.	North Malabar	..	..	..	..	..	..	(a)+ 1,439
	South do.	..	..	..	..	..	..	(h) 93
	The Nilgiris	..	485	..	1	484	9	475 (a)+ 672
	South Coimbatore	..	242	..	..	242	..	146 (a)+ 326
	Tinnevelly	..	3,422	1	25	3,398	..	248
	Total, Southern Circle ..	..	4,149	1	26	4,124	9	3,399
	Grand Total, Cultural Operations, Presidency.	..	9,208 MLS. 90	278	401	9,085 MLS. 90	1,561	9,926

(a) Added or deducted as per Accountant-General's audited figures under A-VIII (e).
(b) Represents cost of maintaining plantations which have been included in reserved forests.
(c) Revised figure. (d) By rectification.
(e) Erroneously shown in previous year's return under cultural operations.
(f) Failure. (g) Partial success.
(h) Cost of planting *swietenia macrophylla* seedlings in bare spaces in teak plantations Pokote and Valluvasherry.

Area of Plantations, Cultural Operations, &c., 1898-99—*cont.*

	District.	Number of plantations and topes.	Area in acres.				Receipts.	Charges.
			On 1st July 1898.	Added during the year.	Excluded during the year.	Area on 30th June 1899.	Of the year.	
	1	2	3	4	5	6	7	8
			O. Topes.					
							Rs.	Rs.
Northern Circle.	Ganjám	7	101	..	..	101	..	..
	Vizagapatam	2	78	..	..	78	..	182
	Kistna	13	131	..	..	131	13	257
	Kurnool	30	206	..	..	206	88	134
	Bellary	30	212	..	..	212	..	60
	Anantapur	(*a*) 905	(*b*) 2,885	..	..	2,885	..	..
	Total, Northern Circle ..	987	3,613	..	..	3,613	101	633
Central Circle.	Cuddapah	60	1,630	..	(*c*) 696	934	380	305
	Nellore	112	1,776	..	..	1,776	..	..
	Chingleput	9	88	..	..	88	..	..
	North Arcot	22	1,938	..	(*d*) 1,440	498	..	429
	South Arcot	63	464	..	(*e*) 2	462	558	46
	Salem	126	1,598	..	..	1,598	..	..
	Trichinopoly	19	573	..	..	573	1,411	162
	Total, Central Circle ..	411	8,067	..	2,138	5,929	2,349	942
Southern Circle.	North Malabar	4	56	..	..	56	300	235
	South do.	1	20	..	..	20	2	..
	North Coimbatore ..	3	317	..	(*f*) 108	209	..	244
	South do. ..	23	267	..	..	267	..	..
	Tinnevelly	9	84	..	..	84	24	59
	Total, Southern Circle ..	40	744	..	108	636	326	538
	Grand Total, Topes, Presidency ..	1,438	12,424	..	2,246	10,178	2,776	2,113
	Northern Circle, Plantations, cultural operations and topes	..	6,729	496	158	7,067	1,828	7,224
	Central Circle, Plantations, cultural operations and topes	..	22,791 MLS. 90	325	2,367	20,749 MLS. 90	12,814	12,822
	Southern Circle, Plantations, cultural operations and topes	..	11,914	272	239	11,947	30,778	12,437
	Grand Total, Presidency	..	41,434 MLS. 90	1,093	2,764	39,763 MLS. 90	45,420	32,483

(*a*) Revised figure reported by the Collector and consisting of 456 amroy topes and 449 babul topes.

(*b*) The correct area has not yet been ascertained.

(*c*) One tope of seven acres was handed over to an hospital, three topes of 42 acres reported to be written off having been abandoned and seven topes of 647 acres excluded from the return, having been notified either under section 4 or 16 of the Forest Act.

(*d*) Fifty topes of 917 acres were excluded from this return having been notified under section 4 or 16 of the Forset Act, 523 acres were excluded by rectifitation of area.

(*e*) By rectification.

(*f*) Included in reserved forests.

ANNUAL FORM No. 55.

Forest Department, Madras Presidency.

OUTTURN (in cubic feet, solid) of Timber and Fuel during the year 1898–99, and Agency of Exploitation.

District.	Timber.					Fuel.					Total.
	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Outturn.
1	2	3	4	5	6	7	8	9	10	11	12
Northern Circle.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.
Ganjám	109,096	123,516	..	..	232,612	355	573,796	..	..	574,151	806,763
Vizagapatam	2,199	77,073	634	..	79,906	29,109	322,220	..	..	351,329	431,235
Gódávari	1,834	441,013	4,556	..	447,403	405	695,847	..	..	696,252	1,143,655
Kistna	4,165	238,000	7,905	..	250,070	935	392,561	..	..	393,496	643,566
Kurnool	14,398	156,279	1,500	1,311	173,488	2,950	351,649	..	257,510	612,109	785,597
Bellary	37,421	62,308	..	..	99,729	162,820	237,786	..	..	400,606	500,335
Anantapur	..	10,930	..	..	10,930	..	109,370	..	..	109,370	120,300
Total ..	169,113	1,109,119	14,595	1,311	1,294,138	196,574	2,683,229	..	257,510	3,137,313	4,431,451
Central Circle.											
Cuddapah	41,718	136,988	7,460	..	186,166	5,033	604,954	..	..	609,987	796,153
Nellore	739	87,153	1,940	..	89,832	279,049	135,467	..	..	414,516	504,348
Chingleput	20	70,178	660	..	70,858	42,650	124,764	..	..	167,414	238,272
North Arcot	520	26,112	6,182	..	32,814	82,405	218,228	..	..	300,633	333,447
South Arcot	30	29,687	1,636	..	31,353	1,080	303,389	240	..	304,709	336,062
Salem	964	127,903	1,999	..	130,866	1,394,581	265,542	..	..	1,660,123	1,790,989
Trichinopoly	..	16,800	2,341	..	19,141	163,398	890,700	..	..	1,054,098	1,073,239
Tanjore	..	16,044	..	..	16,044	300	515,829	..	..	516,129	532,173
Total ..	43,991	510,865	22,218	..	577,074	1,968,496	3,058,873	240	..	5,027,669	5,604,683
Southern Circle.											
South Canara	46,684	8,255	235	..	55,174	3,704	864,565	..	..	868,269	923,443
North Malabar	98,349	2,188	10,290	..	110,827	400	1,560	2,600	..	4,560	115,387
South Malabar	166,145	22,896	395	..	189,436	1,074	15,771	..	..	16,845	206,281
The Nilgiris	33,669	4,680	1,404	112	39,865	511,701	33,305	343	13	545,362	585,227
North Coimbatore	4,031	20,977	684	..	25,692	..	238,192	..	..	238,192	263,884
South Coimbatore	91,993	21,406	..	..	113,389	166,940	886,263	..	..	1,053,203	1,166,592
Madura	578	150,292	184	..	151,054	8,317	384,000	..	..	392,317	543,371
Tinnevelly	8,373	44,867	4,053	..	57,293	32,328	1,957,535	..	..	1,989,863	2,047,156
Total ..	449,812	275,561	17,245	112	742,730	724,464	4,381,191	2,943	13	5,108,611	5,851,341
Grand Total ..	662,916	1,895,545	54,058	1,423	2,613,942	2,889,534	10,123,293	3,183	257,523	13,273,533	15,887,475

Annual Form No. 56.

Forest Department, Madras Presidency.

Outturn of Minor Forest Produce during the year 1898-99.

Circle.	Description of produce.	Produce removed or utilized.									
		By Government Agency.		By purchasers.		By free grants.		By right-holders.		Total.	
		Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
1	2	3	4	5	6	7	8	9	10	11	12
Northern Circle.	Bamboos	NO. 14,588	RS. 292	NO. 14,223,975	RS. 67,983	NO. 17,670	RS. 104	NO. 20,489	RS. 128	NO. 14,276,722	RS. 68,507
	Grass and grazing	MDS. 320	3	..	1,43,594	..	935	..	700	..	1,45,232
	Stones, gravel and earth	..	..	C. L. 19,700	4,294	C. L. 400	25	..	..	..	4,319
	Tamarind, soapnuts, gallnuts	..	..	..	208	..	100	..	..	..	308
	Horns, honey, wax	..	..	MDS. 1,624	133	..	..	..	..	..	133
	Miscellaneous	MDS. 5,840	91	..	1,62,820	..	371	..	38,450	..	2,01,732
	Total	..	386	..	3,79,032	..	1,535	..	39,278	..	4,20,231
Central Circle.	Bamboos	NO. 5,428	1,276	NO. 7,291,137	44,050	NO. 88,382	484	..	..	NO. 7,384,947	45,810
	Grass and grazing	..	..	..	2,08,171	..	..	..	356	..	2,08,527
	Stones, gravel and earth	..	..	C. FT. 100,859 C. L. 14,759	2,308	..	..	..	..	..	2,308
	Tamarind, soapnuts, gallnuts	MDS. 3,327	980	..	207	..	..	..	..	..	1,187
	Horns, honey, wax	,, 3	19	..	..	..	..	..	..	..	19
	Miscellaneous	,, 3,573	1,432	..	2,09,556	..	686	..	..	..	2,11,674
	Total	..	3,707	..	4,64,292	..	1,170	..	356	..	4,69,525
Southern Circle.	Bamboos	NO. 377,161	5,360	NO. 3,978,543	18,728	20,918	303	881	2	NO. 4,377,503	24,393
	Grass and grazing	..	..	..	82,402	..	..	..	753	..	83,155
	Stones, gravel and earth	..	..	C. L. 10,054 C. FT. 185,700 TONS. 401	1,326	C. L. 30	4	..	..	..	1,330
	Tamarind, soapnuts, gallnuts	MDS. 13,042	12,310	..	903	..	..	..	..	..	13,213
	Horns, honey, wax	,, 957	5,144	MDS. 9	41	..	..	..	..	..	5,185
	Catechu	,, 1,378	11,566	..	..	..	..	..	..	..	11,566
	Miscellaneous	,, 4,846	10,104	..	85,784	..	213	..	45	..	96,146
	Total	..	44,484	..	1,89,184	..	520	..	800	..	2,34,988
	Grand Total	..	48,577	..	10,32,508	..	3,225	..	40,434	..	11,24,744

ANNUAL FORM No. 57.

Forest Department, Madras Presidency.

ACCOUNT of Timber cut or collected by Government Agency and brought to depots sold locally, &c., or otherwise disposed of during the year 1898–99.

Name of district.	Balance at commencement of the year in forests and sale depots.	Received during the year.	Total.	Disposed of during the year.	Balance in hand at the close of the year in forests and sale depots.
1	2	3	4	5	6
TIMBER (CUBIC FEET).					
Northern Circle.					
Ganjám	2,446	109,096	111,542	105,435	6,107
Vizagapatam	..	2,199	2,199	2,199	..
Gódávari	..	1,834	1,834	96	1,738
Kistna	685	4,165	4,850	4,850	..
Kurnool	10,240	14,398	24,638	17,496	7,142
Bellary	6,951	37,421	44,372	23,979	20,393
Anantapur	..	..	..	..	..
Total ..	20,322	169,113	189,435	154,055	35,380
Central Circle.					
Cuddapah	12,806	41,718	54,524	54,430	94
Nellore	24	739	763	763	..
Chingleput	..	20	20	20	..
North Arcot	193	520	713	713	..
South Arcot	4	30	34	11	23
Salem	541	964	1,505	1,155	350
Trichinopoly	..	..	..	..	..
Tanjore	..	..	..	..	..
Total ..	13,568	43,991	57,559	57,092	467
Southern Circle.					
South Canara	23,121	46,684	69,805	16,668	53,137
Malabar (North)	44,817	98,349	143,166	41,998	101,168
Do. (South)	120,183	166,145	286,328	93,325	193,003
Nilgiris	5,449	33,669	39,118	29,900	9,218
Coimbatore (North)	2,401	4,031	6,432	4,564	1,868
Do. (South)	89,820	91,983	181,803	16,827	164,976
Madura	5	578	583	583	..
Tinnevelly	152	8,373	8,525	6,811	1,714
Total ..	285,948	449,812	735,760	210,676	525,084
Grand Total ..	319,838	662,916	982,754	421,823	560,931
FUEL (CUBIC FEET).					
Northern Circle.					
Ganjám	6	355	361	361	..
Vizagapatam	..	29,109	29,109	29,109	..
Gódávari	..	405	405	405	..
Kistna	..	935	935	935	..
Kurnool	11,682	2,950	14,632	8,482	6,150
Bellary	24,918	162,820	187,738	103,338	84,400
Anantapur	..	..	..	..	..
Total ..	36,606	196,574	233,180	142,630	90,550
Central Circle.					
Cuddapah	600	5,033	5,633	2,553	3,080
Nellore	106,870	279,049	385,919	315,944	69,975
Chingleput	3,367	42,650	46,017	43,665	2,352
North Arcot	11,090	82,405	93,495	62,135	31,360
South Arcot	320	1,080	1,400	900	500
Salem	939	1,394,581	1,395,520	1,387,270	8,250
Trichinopoly	105,594	163,398	268,992	166,701	102,291
Tanjore	..	300	300	300	..
Total ..	228,780	1,968,496	2,197,276	1,979,468	217,808
Southern Circle.					
South Canara	821	3,704	4,525	4,523	2
Malabar (North)	..	400	400	400	..
Do. (South)	367	1,074	1,441	1,441	..
Nilgiris	279,748	511,701	791,449	445,229	346,220
Coimbatore (North)	..	..	..	..	..
Do. (South)	103,659	166,940	270,599	196,089	74,510
Madura	1,545	8,317	9,862	8,342	1,520
Tinnevelly	4,800	32,328	37,128	36,328	800
Total ..	390,940	724,464	1,115,404	692,352	423,052
Grand Total ..	656,326	2,889,534	3,545,860	2,814,450	731,410

Account of Timber cut or collected by Government Agency and brought to depots sold locally, &c., or otherwise disposed of during the year 1898–99—*cont.*

Name of district.	Balance at commencement of the year in forests and sale depots.	Received during the year.	Total.	Disposed of during the year.	Balance in hand at the close of the year in forests and sale depots.
1	2	3	4	5	6
MINOR FOREST PRODUCE (MAUNDS OF 25 LB.).					
Northern Circle.					
Ganjám	..	..	..	..	..
Vizagapatam	11,848	5,779	17,627	17,627	..
Gódávari	..	..	..	..	..
Kistna	167	13	180	5	175
Kurnool	589	320	709	667	42
Bellary	82	48	130	130	..
Anantapur	..	..	..	..	..
Total	12,486	6,160	18,646	18,429	217
Central Circle.					
Cuddapah	8	555	563	496	67
Nellore	13,334	4,490	17,824	15,643	2,181
Chingleput	..	30	30	..	30
North Arcot	..	131	131	131	..
South Arcot	..	1,120	1,120	1,120	..
Salem	..	179	179	179	..
Trichinopoly	..	398	398	373	25
Tanjore	..	..	..	..	..
Total	13,342	6,903	20,245	17,942	2,303
Southern Circle.					
South Canara	33	1,458	1,491	1,475	16
Malabar (North)	86	3,744	3,830	3,706	124
Do. (South)	111	141	252	115	137
Nilgiris	72	908	980	907	191
Coimbatore (North)	15,661	12,954	28,615	16,350	12,147
Do. (South)	84	1,017	1,101	1,002	99
Madura	..	..	..	..	..
Tinnevelly	..	1	1	1	..
Total	16,047	20,223	36,270	23,556	12,714
Grand Total	41,875	33,286	75,161	59,927	15,234
BAMBOOS (NUMBER).					
Northern Circle.					
Ganjám	..	..	..	..	..
Vizagapatam	..	6,500	6,500	6,500	..
Gódávari	..	..	..	..	..
Kistna	..	..	..	..	..
Kurnool	9,404	7,020	16,424	15,844	580
Bellary	3,273	1,068	4,341	2,642	1,699
Anantapur	..	..	..	..	..
Total	12,677	14,588	27,265	24,986	2,279
Central Circle.					
Cuddapah	..	..	..	..	..
Nellore	..	..	..	..	..
Chingleput	..	..	..	..	..
North Arcot	2,069	2,181	4,250	3,954	296
South Arcot	..	..	..	..	..
Salem	..	3,247	3,247	3,244	3
Trichinopoly	..	..	..	..	..
Tanjore	..	..	..	..	..
Total	2,069	5,428	7,497	7,198	299
Southern Circle.					
South Canara	175	..	175	175	..
Malabar (North)	1,000	50	1,050	1,050	..
Do. (South)	..	26,426	26,426	16,771	9,655
Nilgiris	..	..	..	..	..
Coimbatore (North)	2,220	348,775	350,995	293,300	57,695
Do. (South)	..	1,910	1,910	1,910	..
Madura	..	..	..	..	..
Tinnevelly	..	..	..	..	..
Total	3,395	377,161	380,556	313,206	67,350
Grand Total	18,141	397,177	415,318	345,390	69,928

Annual Form No. 72-A (Old Code).

Forest Department, Madras Presidency.

Timber and other Produce cut, collected and removed by Consumers or Purchasers during 1898–99.

District.	Timber.	Firewood and charcoal.	Bamboos.	Money value of sales.											
				Timber.		Firewood and charcoal.		Bamboos.		Grazing and fodder grass.		Minor produce.		Total.	
				Amount of sales.	Amount actually realized during the year.	Amount of sales.	Amount actually realized during the year.	Amount of sales.	Amount actually realized during the year.	Amount of sales.	Amount actually realized during the year.	Amount of sales.	Amount actually realized during the year.	Amount of sales.	Amount actually realized during the year.
Northern Circle.	C. FEET.	C. FEET.	NO.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Ganjám	123,516	573,796	1,499,140	11,909	11,909	7,549	7,549	5,722	5,721	7,220	7,221	4,250	4,250	36,650	36,650
Vizagapatam	77,073	322,220	822,706	4,702	4,702	6,520	6,519	7,147	7,147	2,995	2,995	14,757	14,758	36,121	36,121
Gódávari	441,013	695,847	7,589,444	63,759	63,734	16,791	16,789	34,795	34,795	10,698	10,698	6,676	6,505	1,32,719	1,32,521
Kistna	238,000	392,561	164,820	15,065	15,231	10,802	10,114	1,114	1,115	59,127	59,148	17,309	15,441	1,03,417	1,01,049
Kurnool	156,279	351,649	4,048,120	13,617	13,322	11,030	11,029	17,201	17,202	35,447	35,446	30,545	29,045	1,07,840	1,06,044
Bellary	62,308	237,786	97,050	4,781	4,781	4,746	4,729	1,941	1,941	20,517	20,517	43,719	43,453	75,704	75,421
Anantapur	10,930	109,370	2,695	1,924	1,898	2,137	2,151	63	63	7,590	7,519	50,199	49,894	61,913	61,525
Total ..	1,109,119	2,683,229	14,223,975	1,15,757	1,15,577	59,575	58,880	67,983	67,984	1,43,594	1,43,544	1,67,455	1,63,346	5,54,364	5,49,331
Central Circle.															
Cuddapah	136,988	604,954	1,718,320	10,673	10,668	14,048	14,049	5,696	5,696	38,794	38,794	50,147	47,394	1,19,358	1,16,601
Nellore	87,153	135,467	2,102	8,846	8,874	6,986	5,347	103	100	34,471	34,472	20,440	20,432	70,846	69,225
Chingleput	70,178	124,764	33,728	5,610	5,609	7,630	8,435	70	70	13,972	13,999	10,169	14,265	37,451	42,378
North Arcot	26,112	218,228	31,608	5,376	4,862	17,052	22,155	494	27,273	27,413	27,414	26,309	31,743	76,644	1,13,447
South do.	29,687	303,389	40,882	3,711	3,704	18,962	23,822	2,276	2,276	40,036	40,036	21,244	21,493	86,229	91,331
Salem	127,903	265,542	5,088,908	22,103	23,161	12,236	12,242	32,449	32,721	41,942	42,217	69,195	39,064	1,77,925	1,49,425
Trichinopoly	16,800	890,700	373,260	1,686	1,642	20,197	18,765	2,560	2,469	10,804	10,450	9,774	18,060	45,021	51,386
Tanjore	16,044	515,829	2,329	1,025	1,025	10,532	9,417	402	266	739	739	4,793	4,687	17,491	16,134
Total ..	510,865	3,058,873	7,291,137	59,030	59,545	1,07,643	1,14,232	44,050	70,871	2,08,171	2,08,121	2,12,071	1,97,158	6,30,965	6,49,927
Southern Circle.															
South Canara	8,255	864,565	123,015	2,574	2,579	13,031	12,988	1,761	1,761	5,381	5,381	8,524	9,218	31,271	31,927
North Malabar	2,188	1,560	10,358	870	913	24	27	155	170	1,488	1,489	421	800	2,958	3,399
South do.	22,896	15,771	71,378	3,939	3,939	219	219	1,200	1,200	110	110	1,430	1,370	6,898	6,838
Nilgiris	4,680	33,305	278,827	851	851	1,299	1,371	3,335	3,335	7,560	7,560	2,870	2,873	15,915	15,990
North Coimbatore ..	20,977	238,192	1,627,320	2,158	2,155	14,006	13,986	5,107	4,995	42,217	42,182	9,067	9,014	72,555	72,332
South do.	21,406	886,263	1,677,080	2,842	5,889	18,059	15,356	3,024	5,384	6,723	6,722	4,880	5,310	35,528	38,661
Madura	150,292	384,000	69,186	12,218	12,264	21,172	21,331	2,755	2,755	12,126	12,138	36,122	33,034	84,393	81,522
Tinnevelly	44,867	1,957,535	121,379	5,763	4,996	44,776	41,646	1,391	1,256	6,797	6,796	24,740	24,869	83,467	79,563
Total ..	275,561	4,381,191	3,978,543	31,215	33,586	1,12,586	1,06,924	18,728	20,856	82,402	82,378	88,054	86,488	3,32,985	3,30,232
Grand Total ..	1,895,545	10,123,293	25,493,655	2,06,002	2,08,708	2,79,804	2,80,036	1,30,761	1,59,711	4,34,167	4,34,043	4,67,580	4,46,992	15,18,314	15,29,490
												Add outstandings at the close of 1897–98		2,53,495	
													Total ..	17,71,809	
												Deduct amount realized as per Form No. 59		15,29,490	
												Balance outstanding on 30th June 1899		2,42,319	

ANNUAL FORM No. 72-B (OLD CODE).

Forest Department, Madras Presidency.

TIMBER and other Produce Confiscated and Sold during the year 1898–99.

District.	TIMBER.		FIREWOOD.		BAMBOOS.		Minor produce in value.	Total amount of sales.	Amount actually realized.
	Quantity in cubic feet.	Amount of sales.	Quantity in cubic feet.	Amount of sales.	Number.	Amount of sales.			
Northern Circle.		RS.		RS.		RS.	RS.	RS.	RS.
Ganjám	2,469	373	3,763	62	2,569	12	1	448	448
Vizagapatam ..	1,102	84	659	20	1,116	6	20	130	130
Gódávari	32,320	2,020	69,952	1,093	19,470	238	..	3,351	3,351
Kistna	527	42	328	9	1,671	26	20	97	97
Kurnool	7,083	859	363	27	5,962	7	35	928	931
Bellary	148	20	347	17	..	..	..	37	37
Anantapur	100	24	900	17	..	..	7	48	* ..
Total ..	43,749	3,422	76,312	1,245	30,788	289	83	5,039	4,994
Central Circle.									
Cuddapah	8,293	2,282	584	27	129	3	4	2,316	2,316
Nellore	280	69	160	9	..	..	9	87	87
Chingleput	656	67	83	3	..	..	316	386	386
North Arcot ..	436	72	416	38	1,136	11	13	134	134
South do. ..	453	56	1,052	66	..	1	50	173	173
Salem	1,348	902	237	11	2,718	84	6	1,003	1,003
Trichinopoly ..	180	73	3,125	124	316	3	56	256	256
Tanjore	5	1	400	6	..	..	1	8	8
Total ..	11,651	3,522	6,057	284	4,299	102	455	4,363	4,363
Southern Circle.									
South Canara ..	2,206	1,241	4,800	350	93	15	32	1,638	1,606
Malabar, North ..	..	..	..	..	..	..	..	..	..
Do. South ..	230	31	20	..	..	..	1	32	32
Nílgiris	14	24	5	..	..	..	..	24	24
Coimbatore, North ..	732	126	114	7	6,652	37	8	178	178
Do. South ..	2,469	382	3,622	46	..	1	24	453	453
Madura	1,422	109	1,323	29	13	..	170	308	308
Tinnevelly	78	47	13,940	519	..	2	17	585	585
Total ..	7,151	1,960	23,824	951	6,758	55	252	3,218	3,186
Grand Total ..	62,551	8,904	106,193	2,480	41,845	446	790	12,620	12,543
Add outstandings at the close of 1897-98								3	
							Total ..	12,623	
Deduct amount realized as per Form No. 59 + Rs. 48 shown against Anantapur								12,591	
							Balance outstanding on 30th June 1899 ..	32	

* The Collector states that the amount was credited to head II and so the figure does not appear in the Accountant-General's Form No. 59.

ANNUAL FORM No. 58.

Forest Department, Madras Presidency.

ABSTRACT showing the Value of Timber and other Produce at sale depots, for the year 1898–99.

District.	Description of timber or produce.	On hand at commencement of the year.			On hand at close of the year.			Difference in value.	
		Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favour of the year.	Against the year.
	Northern Circle.			RS.			RS.	RS.	RS.
Ganjám ..	Sal	..	901	336	..	3,917	1,469	1,133	..
	Miscellaneous ..	..	1,545	382	..	2,190	548	166	..
	Total, timber ..	..	2,446	718	..	6,107	2,017	1,299	..
	Fuel	..	6	..	..	..	..	..	..
Vizagapatam.	Minor produce ..	MDS. 11,848	..	64	..	..	..	..	64
Gódávari ..	Miscellaneous timber ..	..	..	..	..	1,738	3,000	3,000	..
Kistna ..	Miscellaneous timber ..	..	685	173	..	..	..	..	173
	Minor produce ..	MDS. 167	..	351	MDS. 175	..	350	..	1
Kurnool ..	Teak	..	1,477	1,846	..	827	827	..	1,019
	Miscellaneous ..	..	8,763	7,317	..	6,315	3,348	..	3,969
	Total, timber ..	..	10,240	9,163	..	7,142	4,175	..	4,988
	Fuel	..	11,682	1,062	..	6,150	338	..	724
	Bamboos ..	9,404	..	282	580	..	11	..	271
	Minor produce ..	MDS. 389	..	96	MDS. 42	..	42	..	54
Bellary ..	Teak	..	1,564	1,955	..	2,472	3,125	1,170	..
	Miscellaneous ..	..	5,387	617	..	17,921	2,055	1,438	..
	Total, timber ..	..	6,951	2,572	..	20,393	5,180	2,608	..
	Fuel	..	24,918	5,625	..	84,400	11,253	5,628	..
	Bamboos ..	3,273	..	193	1,699	..	98	..	95
	Minor produce ..	MDS. 82	..	5	..	..	..	..	5
Anantapur.	....	..	..	..	..	..	..	..	..
	Central Circle.								
Cuddapah ..	Redwood ..	..	12,290	3,761	..	..	..	..	3,761
	Miscellaneous ..	..	516	67	..	94	25	..	42
	Total, timber ..	..	12,806	3,828	..	94	25	..	3,803
	Fuel	..	600	11	..	3,080	159	148	..
	Minor produce ..	MDS. 8	..	20	MDS. 67	..	129	109	..
Nellore ..	Miscellaneous timber ..	..	24	6	..	..	..	..	6
	Fuel	..	106,870	16,194	..	69,975	12,110	..	4,084
	Minor produce ..	MDS. 13,334	..	6,999	MDS. 2,181	..	1,207	..	5,792
Chingleput.	Fuel	..	3,367	336	..	2,352	235	..	101
	Minor produce ..	..	..	..	MDS. 30	..	45	45	..
North Arcot.	Miscellaneous timber.. ..	..	193	48	..	..	..	..	48
	Fuel	..	11,090	645	..	31,360	1,677	1,032	..
	Bamboos ..	2,069	..	487	296	..	9	..	478
South Arcot.	Miscellaneous timber ..	..	4	2	..	23	6	4	..
	Fuel	..	320	24	..	500	12	..	12

Abstract showing the Value of Timber and other Produce at sale depots, &c.—*cont.*

District.	Description of timber or produce.	On hand at commencement of the year.			On hand at close of the year.			Difference in value.	
		Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favour of the year.	Against the year.
	Central Circle—cont.			RS.			RS.	RS.	RS.
Salem ..	Miscellaneous timber ..	..	244	244	..	..	..	..	244
	Fuel	..	939	19	..	8,250	245	226	..
	Sandalwood ..	..	297	2,970	..	350	3,500	530	..
	Bamboos ..	..	..	..	3	..	1	1	..
Trichinopoly	Fuel	..	105,594	7,303	..	102,291	6,966	..	337
	Minor produce ..	..	..	..	MDS. 25	..	37	37	..
Tanjore ..	....	..	..	..	..	..	..	..	..
	Southern Circle.								
South Canara.	Teak	..	..	..	..	18	18	18	..
	Rosewood ..	..	118	117	..	889	1,710	1,598	..
	Miscellaneous ..	..	23,003	2,142	..	52,230	36,540	34,398	..
	Total, timber ..	..	23,121	2,259	..	53,137	38,268	36,009	..
	Fuel	..	821	129	..	2	..	..	129
	Bamboos ..	175	..	26	..	..	..	..	26
	Minor produce ..	MDS. 33	..	41	MDS. 16	..	16	..	25
North Malabar.	Teak	..	31,072	22,982	..	39,786	24,011	1,029	..
	Rosewood ..	..	2,238	839	..	1,839	690	..	149
	Vengai	..	2,686	1,049	..	5,955	1,861	812	..
	Miscellaneous ..	..	8,821	1,862	..	53,588	15,624	13,762	..
	Total, timber ..	..	44,817	26,732	..	101,168	42,186	15,603	149
	Bamboos ..	1,000	..	150	..	..	..	..	150
	Minor produce ..	MDS. 86	..	5,088	MDS. 124	..	3,724	..	1,364
South Malabar.	Teak	..	19,915	62,000	..	22,269	65,000	3,000	..
	Rosewood ..	..	751			1,929			
	Vengai	..	1,034			659			
	Miscellaneous ..	..	98,483			168,146			
	Total, timber ..	..	120,183	62,000	..	193,003	65,000	3,000	..
	Fuel	..	367	42	..	..	..	..	42
	Bamboos ..	..	..	..	9,655	..	580	580	..
	Minor produce ..	MDS. 111	..	317	MDS. 137	..	210	..	107
Nilgiris ..	Teak	..	4,419	5,892	..	150	200	..	5,692
	Rosewood ..	..	3	3	..	3	3	..	..
	Vengai	..	5	3	..	5	3	..	..
	Miscellaneous ..	..	1,022	90	..	9,060	810	720	..
	Total, timber ..	..	5,449	5,988	..	9,218	1,016	720	5,692
	Fuel	..	279,748	2,380	..	346,220	2,971	591	..
	Minor produce ..	MDS. 72	..	72	MDS. 191	..	191	119	..
North Coimbatore.	Teak	..	206	200	..	..	..	..	200
	Vengai	..	1,110	1,000	..	298	270	..	730
	Miscellaneous ..	..	978	778	..	783	563	..	215
	Total, timber ..	..	2,294	1,978	..	1,081	833	..	1,145
	Bamboos ..	2,220	..	50	57,695	..	1,010	960	..
	Sandalwood ..	..	107	1,302	..	787	7,022	5,720	..
	Minor produce ..	MDS. 15,661	..	20,039	MDS. 12,147	..	13,420	..	6,619

Abstract showing the Value of Timber and other Produce at sale depots, &c.—*cont.*

District.	Description of timber or produce.	On hand at commencement of the year.			On hand at close of the year.			Difference in value.	
		Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favour of the year.	Against the year.
	Southern Circle—cont.			RS.			RS.	RS.	RS.
South Coimbatore.	Teak	..	14,750	21,587	..	38,882	77,764	56,177	..
	Rosewood ..	..	1,901	2,655	..	2,315	2,315	..	340
	Vengai	..	213	183	..	351	272	89	..
	Ironwood ..	..	487	189	..	1,770	900	711	..
	Miscellaneous ..	..	72,469	36,116	..	121,658	85,120	49,004	..
	Total, timber ..	..	89,820	60,730	..	164,976	1,66,371	1,05,981	340
	Fuel	..	103,659	1,820	..	74,510	1,424	..	396
	Minor produce ..	MDS. 84	..	84	MDS. 99	..	99	15	..
Madura ..	Teak	..	5	12	..	..	..	..	12
	Fuel	..	1,545	261	..	1,520	281	20	..
Tinnevelly ..	Vengai	..	29	29	..	..	..	..	29
	Miscellaneous ..	..	123	114	..	1,714	2,261	2,147	..
	Total, timber ..	..	152	143	..	1,714	2,261	2,147	29
	Fuel	..	4,800	381	..	800	64	..	317
	ABSTRACT.								
	Northern Circle.			RS.			RS.	RS.	RS.
	Timber	..	20,322	12,626	..	35,380	14,372	1,746	..
	Fuel	..	36,606	6,687	..	90,550	11,591	4,904	..
	Bamboos ..	12,677	..	475	2,279	..	109	..	366
	Minor produce ..	MDS. 12,486	..	* 516	MDS. 217	..	392	..	124
	Central Circle.								
	Timber	..	13,271	4,128	..	117	31	..	4,097
	Sandalwood ..	..	297	2,970	..	350	3,500	530	..
	Fuel	..	228,780	24,532	..	217,808	21,404	..	3,128
	Bamboos ..	2,069	..	487	299	..	10	..	477
	Minor produce ..	MDS. 13,342	..	7,019	MDS. 2,303	..	1,418	..	5,601
	Southern Circle.								
	Timber	..	285,841	1,59,842	..	524,297	3,15,935	1,56,093	..
	Sandalwood ..	..	107	1,302	..	787	7,022	5,720	..
	Fuel	..	390,940	5,013	..	423,052	4,740	..	273
	Bamboos ..	3,395	..	226	67,350	..	1,590	1,364	..
	Minor produce ..	MDS. 16,047	..	25,641	MDS. 12,714	..	17,660	..	7,981
	GRAND TOTAL.								
				RS.			RS.	RS.	RS.
	Timber	..	3,19,434	1,76,596	..	559,794	3,30,338	1,53,742	..
	Sandalwood ..	..	404	4,272	..	1,137	10,522	6,250	..
	Fuel	..	6,56,326	36,232	..	731,410	37,735	1,503	..
	Bamboos ..	18,141	..	1,188	69,928	..	1,709	521	..
	Minor produce ..	MDS. 41,875	..	33,171	MDS. 15,234	..	19,470	..	13,706

* Rectification.

Annual Form No. 59.

Summary of Revenue of the different Districts for the Forest year 1898-99.

Budget head	Northern Circle.									Central Circle.				
	Direction.	Ganjám.	Vizagapatam.	Gódávari.	Kistna.	Kurnool.	Bellary.	Anantapur.	Total.	Direction.	Nellore.	Cuddapah.	Chingleput.	North Arcot.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Receipts.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
I. Timber and other produce removed from the forests by Government Agency—														
(*a*) Timber	..	11,770	96	..	1,067	11,991	2,034	..	26,958	..	40	18,396	1	1,328
(*b*) Firewood and charcoal	..	17	1,654	28	42	819	5,575	..	8,135	..	40,657	100	3,208	3,429
(*c*) Bamboos	..	..	39	..	..	304	13	..	356	..	..	..	..	551
(*d*) Sandalwood	..	..	..	..	..	..	..	..	..	..	..	..	..	1
(*e*) Grass and other minor produce	..	..	67	..	8	20	16	..	111	..	5,612	224	2	177
II. Timber and other produce removed from the forests by consumers or purchasers—														
(*a*) Timber	..	11,909	4,702	63,734	15,231	13,322	4,781	1,898	1,15,577	..	8,874	10,668	5,609	4,862
(*b*) Firewood and charcoal	..	7,549	6,519	16,789	10,114	11,029	4,729	2,151	58,880	..	5,347	14,049	8,435	22,155
(*c*) Bamboos	..	5,721	7,147	34,795	1,115	17,202	1,941	63	67,984	..	100	5,696	70	27,273
(*d*) Grazing and fodder grass	..	7,221	2,995	10,698	59,148	35,446	20,517	7,519	1,43,544	..	34,472	38,794	13,999	27,414
(*e*) Other produce	..	4,250	14,758	6,505	15,441	29,045	43,453	49,894	1,63,346	..	20,432	47,394	14,265	31,743
III. Confiscated drift and waifwood	..	448	130	3,351	97	931	37	..	4,994	..	87	2,316	386	134
IV. Revenue from forests not managed by Government	..	..	..	..	..	..	..	..	..	..	..	..	..	..
V. Miscellaneous—														
(*a*) Fines and forfeitures	..	155	..	221	65	10	246	375	1,072	..	68	283	338	884
(*b*) Refunds	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(*c*) Other sources	10	1,207	1,285	2,962	5,534	5,115	5,300	1,676	23,089	7	2,495	3,567	1,395	6,677
Total, Receipts	10	50,247	39,392	1,39,083	1,07,862	1,25,234	88,642	63,576	6,14,046	7	1,18,184	1,41,487	47,708	1,26,628

Budget heads.	Central Circle—*cont.*					Southern Circle.								
	South Arcot.	Salem.	Trichinopoly.	Tanjore.	Total.	Direction.	Nilgiris.	North Coimbatore.	South Coimbatore.	Madura.	Tinnevelly.	North Malabar.	South Malabar.	South Canara.	Total.
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Receipts.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
I. Timber and other produce removed from the forests by Government Agency—															
(*a*) Timber	1,816	692	..	..	22,273	..	14,759	1,262	11,240	..	8,916	19,092	55,780	7,131	1,18,180
(*b*) Firewood and charcoal	277	1,03,699	9,917	10	1,61,297	..	20,660	..	3,018	592	1,782	..	169	620	26,841
(*c*) Bamboos	..	174	..	..	725	..	..	5,340	60	..	..	84	1,586	8	7,078
(*d*) Sandalwood	17	1,347	..	..	1,365	..	3,958	22,473	..	..	..	..	..	..	26,431
(*e*) Grass and other minor produce	12	5	152	..	6,184	..	211	22,144	5,888	..	29	2,673	274	12,494	43,713
II. Timber and other produce removed from the forests by consumers or purchasers—															
(*a*) Timber	3,704	23,161	1,642	1,025	59,545	..	851	2,155	5,889	12,264	4,996	913	3,939	2,579	33,586
(*b*) Firewood and charcoal	23,822	12,242	18,765	9,417	1,14,232	..	1,371	13,986	15,356	21,331	41,646	27	219	12,988	1,06,924
(*c*) Bamboos	2,276	32,721	2,469	266	70,871	..	3,335	4,995	5,384	2,755	1,256	170	1,200	1,761	20,856
(*d*) Grazing and fodder grass	40,036	42,217	10,450	739	2,08,121	..	7,560	42,182	6,722	12,138	6,796	1,489	110	5,381	82,378
(*e*) Other produce	21,493	39,084	18,060	4,687	1,97,158	..	2,873	9,014	5,310	33,034	24,869	800	1,370	9,218	86,488
III. Confiscated drift and waifwood	173	1,003	256	8	4,363	..	24	178	453	308	585	..	32	1,606	3,186
IV. Revenue from forests not managed by Government	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
V. Miscellaneous—															
(*a*) Fines and forfeitures	484	37	326	..	2,420	..	10	10	6	36	242	40	54	172	570
(*b*) Refunds	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(*c*) Other sources	891	8,087	1,332	767	25,218	..	5,274	2,104	6,854	1,182	4,851	4,738	2,529	3,673	31,205
Total, Receipts	95,001	2,64,469	63,369	16,919	8,73,772	..	60,886	1,25,843	66,180	83,640	95,968	30,026	67,262	57,631	5,87,436

Madras, 25th August 1899.

(Signed) P. V. Krishnaswami, Officiating Chief Superintendent.

ANNUAL FORM NO. 59—*cont.*

Forest Department, Madras Presidency, Northern Circle.

SUMMARY of Expenditure of the different Districts for the Forest year 1898–99.

Budget heads.	Direction.	Ganjám.	Vizagapatam.	Gódávari.	Kistna.	Kurnool.	Bellary.	Anantapur.	Total.
A.—Conservancy and Works.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
I. Timber and other produce removed from the forests by Government Agency—									
(*a*) Timber	..	4,576	89	62	133	6,063	1,625	1	12,549
(*b*) Firewood and charcoal	..	..	973	10	17	190	3,451	..	4,641
(*c*) Bamboos	..	..	48	..	..	18	97	..	163
(*d*) Sandalwood ..	..	..	..	..	..	..	..	..	..
(*e*) Grass and other minor produce ..	..	..	47	..	3	..	..	..	50
II. Timber and other produce removed from the forests by consumers or purchasers	..	5,105	4,321	12,135	6,635	13,098	2,873	1,194	45,361
III. Confiscated drift and waif-wood	..	33	42	454	14	45	8	2	598
IV. Revenue from forests not managed by Government	..	..	..	..	..	..	..	..	..
V. Rent of leased forests and payments to share-holders in forests managed by Government	..	..	..	..	..	..	10,000	..	10,000
VI. Live-stock, stores, tools and plant—									
(*a*) Purchase of cattle ..	..	..	..	..	..	..	..	..	..
(*b*) Feed and keep of cattle	36	..	866	1,412	..	640	..	..	2,954
(*c*) Stores, tools and plant	43	800	730	901	329	125	11	45	2,984
VII. Communications and buildings—									
(*a*) Roads and bridges..	49	388	393	4,052	4,536	3,442	1,594	283	14,737
(*b*) Buildings	60	1,409	1,187	4,179	411	4,868	911	2,038	15,063
(*c*) Other works ..	..	33	305	500	3	160	..	..	1,001
VIII. Demarcation, improvement and extension of forests—									
(*a*) Demarcation. ..	..	1,706	2,828	1,444	2,015	3,675	3,328	602	15,598
(*b*) Cost of forest settlement; compensation for land and rights	..	..	1,046	87	5,645	253	38	278	7,347
(*c*) Surveys (1) Local ..	..	2,068	467	1,215	1,035	1,120	496	319	6,720
(2) Survey of India ..	19,430	..	..	..	..	..	..	..	19,430
(*d*) Working plans ..	..	38	..	37	3	36	..	..	114
(*e*) Sowing and planting.	350	1,095	300	887	2,715	214	1,276	387	7,224
(*f*) Protection from fire.	..	933	507	2,391	186	2,525	2,334	1,402	10,278
(*g*) Other works ..	..	..	5	..	11,612	57	3,527	3,488	18,689
IX. Miscellaneous—									
(*a*) Refunds	..	731	28	569	132	267	981	278	2,986
(*b*) Law charges ..	..	9	..	1	172	8	..	—498	—308
(*c*) Other charges ..	12	66	14	223	130	113	4	9	571
Total, A.—Conservancy and Works.	19,980	18,990	14,196	30,559	35,726	36,917	32,554	9,828	1,98,750

MADRAS,
25th August 1899.

(Signed) P. V. KRISHNASWAMI,
Offg. Chief Superintendent.

ANNUAL FORM No. 59—*cont.*

Forest Department, Madras Presidency, Central Circle.

SUMMARY of Expenditure of the different Districts for the Forest year 1898-99—*cont.*

Budget heads.	Direction.	Nellore.	Cuddapah.	Chingleput.	North Arcot.	South Arcot.	Salem.	Trichinopoly.	Tanjore.	Total.
A.—Conservancy and Works.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
I. Timber and other produce removed from the forests by Government Agency—										
(*a*) Timber ..	..	33	7,411	..	318	360	1,053	..	..	9,175
(*b*) Firewood and charcoal ..	..	15,025	23	1,629	1,742	78	71,409	3,310	4	93,220
(*c*) Bamboos ..	..	..	..	..	226	26	190	..	..	442
(*d*) Sandalwood ..	..	..	..	..	..	..	189	..	..	189
(*e*) Grass and other minor produce ..	..	2,443	44	9	21	5	..	20	..	2,542
II. Timber and other produce removed from the forests by consumers or purchasers ..	..	2,249	10,211	2,305	267	2,789	10,865	1,950	423	31,059
III. Confiscated, drift and waifwood	..	..	46	7	5	5	25	..	..	88
IV. Revenue from forests not managed by Government	..	..	..	..	..	..	..	..	..	..
V. Rent of leased forests and payments to shareholders in forests managed by Government	..	..	..	..	..	..	10	..	..	10
VI. Live-stock, stores, tools and plant—										
(*a*) Purchase of cattle ..	..	..	..	..	..	..	..	..	..	..
(*b*) Feed and keep of cattle ..	..	..	..	..	..	..	..	..	..	..
(*c*) Stores, tools and plant ..	32	488	512	450	1	412	14	..	2	1,911
VII. Communications and buildings—										
(*a*) Roads and bridges ..	..	..	1,894	83	2,219	283	1,194	40	..	5,713
(*b*) Buildings ..	..	1,111	1,867	245	2,835	431	2,089	103	18	8,699
(*c*) Other works ..	..	..	155	161	235	4	34	..	..	589
VIII. Demarcation, improvement and extension of forests—										
(*a*) Demarcation ..	..	809	1,910	1,444	802	3,695	1,021	85	1	9,767
(*b*) Cost of forest settlement; compensation for land and rights ..	..	..	..	..	441	125	..	158	..	724
(*c*) Surveys { (1) Local ..	432	666	371	948	532	252	1,198	195	..	4,594
{ (2) Survey of India charges	20,120	..	..	..	.	..	..	..	..	20,120
(*d*) Working plans.	..	249	5	..	..	336	52	136	..	778
(*e*) Sowing and planting ..	..	3,428	1,073	554	2,920	2,358	36	1,168	1,285	12,822
(*f*) Protection from fire	..	608	4,710	309	4,116	1,270	1,479	150	..	12,642
(*g*) Other works ..	..	1,188	3,053	1,974	6,450	5,348	7,249	3,015	474	28,751
IX. Miscellaneous—										
(*a*) Refunds	..	903	132	119	385	375	1,328	812	263	4,317
(*b*) Law charges ..	..	150	..	..	..	..	58	7	..	215
(*c*) Other charges ..	32	10	57	68	55	123	156	42	2	545
Total A.—Conservancy and Works ..	20,616	29,360	33,474	10,305	23,570	18,275	99,649	11,191	2,472	2,48,912

MADRAS,
25th August 1899.

(Signed) P. V. KRISHNASWAMI,
Offg. Chief Superintendent.

ANNUAL FORM No. 59—*cont.*

Forest Department, Madras Presidency, Southern Circle.

SUMMARY of Expenditure of the different Districts for the Forest year 1898–99—*cont.*

Budget heads.	Direction.	Nilgiris.	North Coimbatore.	South Coimbatore.	Madura.	Tinnevelly.	North Malabar.	South Malabar.	South Canara.	Total.
A.—Conservancy and Works.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
I. Timber and other produce removed from the forests by Government Agency—										
(*a*) Timber ..	..	2,179	448	8,724	..	6,921	7,307	14,967	6,999	47,545
(*b*) Firewood and charcoal ..	..	15,722	61	1,715	681	2,261	11	..	97	20,549
(*c*) Bamboos ..	..	..	4,434	33	..	..	44	1,373	..	5,884
(*d*) Sandalwood ..	..	603	3,653	..	..	..	9	..	..	4,265
(*e*) Grass and other minor produce.	..	227	7,588	2,990	..	..	1,115	145	3,589	15,654
II. Timber and other produce removed from the forests by consumers or purchasers ..	..	1,056	2,910	5,480	2,492	912	369	2	4,082	17,303
III. Confiscated, drift and waifwood	..	28	28	75	66	4	..	..	573	774
IV. Revenue from forests not managed by Government	..	..	..	..	..	..	..	..	..	..
V. Rent of leased forests and payments to shareholders in forests managed by Government	..	4,500	..	2,500	..	..	..	491	..	7,491
VI. Live-stock, stores, tools and plant—										
(*a*) Purchase of cattle ..	..	..	..	797	..	..	2,392	1,109	..	4,298
(*b*) Feed and keep of cattle ..	..	4,516	..	4,880	..	..	7,807	7,394	1,047	25,644
(*c*) Stores, tools and plant ..	34	257	68	739	283	407	369	422	338	2,917
VII. Communications and buildings—										
(*a*) Roads and bridges ..	..	1,411	4,050	2,364	409	6,327	2,130	708	765	18,164
(*b*) Buildings ..	..	940	5,065	5,243	3,950	3,367	4,367	1,193	1,522	25,647
(*c*) Other works ..	..	157	1	2,465	324	224	487	64	64	3,786
VIII. Demarcation, improvement and extension of forests—										
(*a*) Demarcation ..	..	2,375	1,507	316	1,741	217	1,458	496	1,955	10,065
(*b*) Cost of forest settlement; compensation for land and rights ..	..	..	68	35	..	3,479	18,000	..	..	21,582
(*c*) Surveys (1) Local ..	..	360	364	304	531	328	353	202	2,090	4,532
(2) Survey of India.	28,432	..	..	..	..	..	..	..	..	28,432
(*d*) Working plans.	..	..	..	..	..	1,006	110	55	..	1,171
(*e*) Sowing and planting ..	..	1,400	244	472	729	307	2,115	7,050	120	12,437
(*f*) Protection from fire	..	1,889	482	2,053	2,756	446	913	2,296	777	11,612
(*g*) Other works ..	..	985	5,356	1,273	5,311	4,152	1,089	1,371	289	19,826
IX. Miscellaneous—										
(*a*) Refunds ..	..	..	61	4,001	290	1,168	37	..	507	6,064
(*b*) Law charges ..	1	..	..	3	..	..	..	9	18	31
(*c*) Other charges ..	15	3,227	32	940	49	4	60	95	44	4,466
Total A.—Conservancy and works ..	28,482	41,832	36,420	47,403	19,612	31,530	50,542	39,442	24,876	3,20,139

MADRAS,
25th August 1899.

(Signed) P. V. KRISHNASWAMI,
Offg. Chief Superintendent.

ANNUAL FORM No. 59—*cont.*

SUMMARY of Expenditure of the different Districts for the Forest year 1898-99.

Budget heads.	Northern Circle.									Central Circle.										Southern Circle.									
	Direction.	Ganjám.	Vizagapatam.	Gódávari.	Kistna.	Kurnool.	Bellary.	Anantapur.	Total.	Direction.	Nellore	Cuddapah.	Chingleput.	North Arcot.	South Arcot.	Salem.	Trichinopoly.	Tanjore.	Total.	Direction.	Nilgiris.	North Coimbatore.	South Coimbatore.	Madura.	Tinnevelly.	North Malabar.	South Malabar.	South Canara.	Total.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
B.—"Establishments."	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Brought forward, Total A. "Conservancy and Works"	19,980	18,990	14,196	30,559	35,726	36,917	32,554	9,828	1,98,750	20,616	29,360	33,474	10,805	23,570	18,275	99,649	11,191	2,472	2,48,912	28,482	41,832	26,420	47,403	19,612	31,330	50,542	29,442	24,876	3,20,139
I. Salaries—																													
(*a*) Conservators ...	13,142	...	...	...	...	...	...	...	13,142	17,040	..	...	...	...	...	...	...	...	17,040	13,204	...	...	...	...	...	...	...	...	13,204
(*b*) Superior officers ...	11,449	8,615	6,049	13,726	8,870	14,258	7,190	8,830	78,987	15,464	11,228	12,460	7,701	10,715	10,538	13,099	5,685	...	86,850	9,459	15,780	12,475	11,310	9,827	9,823	7,435	7,800	11,498	85,407
(*c*) Subordinate forest and depot establishments ...	1,047	9,176	5,184	12,673	9,911	10,616	7,948	7,371	63,926	594	9,014	15,441	6,158	14,755	10,850	14,691	6,715	1,287	79,505	462	10,349	9,517	10,732	9,702	10,748	5,712	7,128	8,933	73,283
(*d*) Office establishments.	11,122	2,703	1,982	4,061	3,561	4,136	2,788	2,482	32,835	10,148	3,676	3,829	2,012	3,722	2,747	3,828	1,969	935	32,287	10,009	3,146	3,869	3,467	3,612	3,291	3,011	2,084	3,515	36,004
(*e*) Deputation and Special allowances.	170	...	...	...	...	...	...	...	170	116	...	...	242	...	...	...	...	...	358	170	...	...	..	...	.	25		.	195
Exchange compensation allowances.	1,168	453	389	689	337	841	408	...	4,285	1,586	716	642	280	453	307	494	252	...	5,030	1,377	757	620	750	658	475	320	419	547	5,923
II. Travelling allowances—																													
(*a*) Conservators ...	3,559	...	...	...	...	...	...	...	3,559	2,113	...	...	...	...	...	...	...	...	2,113	3,005	..	...	— 2	...	..	...	...	.	3,003
(*b*) Superior officers ...	4,641	2,315	1,192	3,725	1,686	3,143	978	1,218	18,898	3,933	1,086	2,666	923	1,775	1,324	2,997	737	310	14,851	2,911	1,057	2,436	2,197	776	2,084	1,998	729	743	14,925
(*c*) Subordinate forest and depot establishments ...	589	2,310	1,639	3,237	2,632	3,223	1,976	2,040	17,646	274	2,309	3,323	1,849	3,419	2,421	4,175	2,626	426	20,223	111	2,209	3,050	2,971	3,195	2,532	1,822	2,314	2,301	20,585
(*d*) Office establishments	2,703	605	221	859	811	1,113	314	764	7,390	1,484	504	572	227	404	327	543	267	122	4,450	1,658	158	467	378	808	561	698	267	455	5,470
III. Contingencies—																													
(*a*) Stationery ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...
(*b*) Carriage of tents.	...	34	35	27	16	82	107	53	354	...	...	53	60	35	66	69	41	22	8	357	...	36	37	16	13	2	.	...	20	124
(*c*) Rents, rates and taxes	316	55	447	127	3	116	95	99	1,258	...	133	304	42	102	21	41	39	9	691	29	165	165	12	21	115	..	81	30	558
(*d*) Official postage ...	645	430	284	1,089	1,267	691	488	661	5,541	556	290	786	628	1,337	1,316	2,118	534	196	7,761	471	341	774	497	824	892	292	208	959	5,028
(*e*) Service telegrams.	210	48	50	53	107	255	14	32	769	38	30	22	5	127	15	54	5	...	296	125	56	4	5	27	16	79	:	76	371
(*f*) Sundries	1,803	1,015	776	1,974	1,826	1,524	977	770	10,765	1,181	1,030	954	629	1,892	826	1,923	690	106	9,231	1,071	778	1,889	744	1,198	773	1,122	467	1,267	9,310
Total B.—"Establishments" ...	52,664	27,765	18,248	42,220	31,027	39,998	23,283	24,320	2,59,525	53,627	29,460	40,999	20,731	38,767	31,061	44,007	18,972	3,399	2,81,023	44,062	34,832	35,237	33,077	30,661	31,482	22,515	21,580	30,354	2,83,800
Grand Total of Expenditure.	72,644	46,755	32,444	72,779	66,753	76,915	55,837	34,148	4,58,275	74,243	58,820	74,473	31,036	62,337	49,336	1,43,656	30,163	5,871	5,29,935	72,544	76,664	71,657	80,480	50,273	63,012	73,057	61,022	55,230	6,03,939

MADRAS,
25th August 1899.

(Signed) P. V. KRISHNASWAMI,
Offg. Chief Superintendent.

Summary of Receipts and Expenditure during 1898–99 for each Circle and for the Presidency prepared in the Board's office from the Accountant-General's Statement.

Budget heads.	Northern Circle.	Central Circle.	Southern Circle.	Grand Total, Presidency.	
				1898–99.	1897–98.
1	2	3	4	5	6
RECEIPTS.	RS.	RS.	RS.	RS.	RS.
I. Timber and other produce removed from the forests by Government Agency—					
(a) Timber	26,958	22,273	1,18,180	1,67,411	2,29,669
(b) Firewood and charcoal	8,135	1,61,297	26,841	1,96,273	1,73,419
(c) Bamboos	356	725	7,078	8,159	9,223
(d) Sandalwood	..	1,365	26,431	27,796	33,699
(e) Grass and other minor produce	111	6,184	43,713	50,008	32,291
Total, I	35,560	1,91,844	2,22,243	4,49,647	4,78,301
II. Timber and other produce removed from the forests by consumers or purchasers—					
(a) Timber	1,15,577	59,545	33,586	2,08,708	2,43,275
(b) Firewood and charcoal	58,880	1,14,232	1,06,924	2,80,036	2,67,196
(c) Bamboos	67,984	70,871	20,856	1,59,711	1,62,667
(d) Grazing and fodder grass	1,43,544	2,08,121	82,378	4,34,043	3,63,905
(e) Other produce	1,63,346	1,97,158	86,488	4,46,992	4,96,088
Total, II	5,49,331	6,49,927	3,30,232	15,29,490	15,33,131
III. Confiscated drift and waifwood	4,994	4,363	3,186	12,543	11,895
V. Miscellaneous—					
(a) Fines and forfeitures	1,072	2,420	570	4,062	4,173
(b) Refunds	..	..	..	..	..
(c) Other sources	23,089	25,218	31,205	79,512	1,23,614
Total, V	24,161	27,638	31,775	83,574	1,27,787
Grand Total, Receipts	6,14,046	8,73,772	5,87,436	20,75,254	21,51,114
EXPENDITURE.					
A.—Conservancy and Works.					
I. Timber and other produce removed from the forests by Government Agency—					
(a) Timber	12,549	9,175	47,545	69,269	59,062
(b) Firewood and charcoal	4,641	93,220	20,549	1,18,410	1,01,118
(c) Bamboos	163	442	5,884	6,489	4,751
(d) Sandalwood	..	189	4,265	4,454	2,756
(e) Grass and other minor produce	50	2,542	15,654	18,246	16,563
Total, A-I	17,403	1,05,568	93,897	2,16,868	1,84,250
II. Timber and other produce removed from the forests by consumers or purchasers	45,361	31,059	17,303	93,723	88,368
III. Confiscated drift and waifwood	598	88	774	1,460	1,392
V. Rent of leased forests and payments to shareholders in forests managed by Government	10,000	10	7,491	17,501	17,566
VI. Live-stock, stores, tools and plant—					
(a) Purchase of cattle	..	..	4,298	4,298	3,240
(b) Feed and keep of cattle	2,954	..	25,644	28,598	30,428
(c) Stores, tools and plant	2,984	1,911	2,917	7,812	24,404
Total, A-VI	5,938	1,911	32,859	40,708	58,072
VII. Communications and buildings—					
(a) Roads and bridges	14,737	5,713	18,164	38,614	33,689
(b) Buildings	15,063	8,699	25,647	49,409	44,205
(c) Other works	1,001	589	3,786	5,376	5,783
Total, A-VII	30,801	15,001	47,597	93,399	83,677
VIII. Demarcation, improvement and extension of forests—					
(a) Demarcation	15,598	9,767	10,065	35,430	37,733
(b) Cost of forest settlement, compensation for land and rights	7,347	724	21,582	29,653	11,359
(c) (1) Local surveys	6,720	4,594	4,532	15,846	17,621
(c) (2) Survey of India	19,430	20,120	28,432	67,982	1,00,507
(d) Working plans	114	778	1,171	2,063	1,360
(e) Sowing and planting	7,224	12,822	12,437	32,483	37,927
(f) Protection from fire	10,278	12,642	11,612	34,532	36,515
(g) Other works	18,689	28,751	19,826	67,266	68,121
Total, A-VIII	85,400	90,198	1,09,657	2,85,255	3,11,148

Summary of Receipts and Expenditure during 1898-99 for each Circle and for the Presidency prepared in the Board's office from the Accountant-General's Statement—*cont.*

Budget heads.	Northern Circle.	Central Circle.	Southern Circle.	Grand Total, Presidency.	
				1898-99.	1897-98.
1	2	3	4	5	6
EXPENDITURE—*cont.*					
A.—Conservancy and Works—cont.	Rs.	Rs.	Rs.	Rs.	Rs.
IX. Miscellaneous—					
(*a*) Refunds	2,986	4,317	6,064	13,367	8,081
(*b*) Law charges	— 308	215	31	— 62	9,706
(*c*) Other charges	571	545	4,466	5,582	6,955
Total, A-IX ..	3,249	5,077	10,561	18,887	24,742
Total, A.—Conservancy and Works ..	1,98,750	2,48,912	3,20,139	7,67,801	7,69,210
B.—Establishments.					
I. Salaries—					
(*a*) Conservators	13,142	17,040	13,204	43,386	48,905
(*b*) Superior officers	78,987	86,830	95,407	2,61,224	2,68,543
(*c*) Subordinate forest and depot establishments.	63,926	79,505	73,283	2,16,714	1,95,076
(*d*) Office establishments	32,835	32,287	36,064	1,01,186	1,00,664
(*e*) Deputation and Special allowances ..	170	358	195	723	805
(*e*) Exchange compensation allowances ..	4,285	5,030	5,973	15,288	22,499
Total, B-I ..	1,93,345	2,21,050	2,24,126	6,38,621	6,36,492
II. Travelling allowances—					
(*a*) Conservators	3,559	2,113	3,003	8,675	7,581
(*b*) Superior officers	18,898	14,851	14,925	48,674	53,466
(*c*) Subordinate forest and depot establishments.	17,646	20,223	20,885	58,754	51,325
(*d*) Office establishments	7,390	4,450	5,470	17,310	18,346
Total, B-II ..	47,493	41,637	44,283	1,33,413	1,30,718
III. Contingencies—					
(*a*) Stationery	..	..	..	..	..
(*b*) Carriage of tents	354	357	124	835	590
(*c*) Rents, rates and taxes	1,256	691	558	2,507	2,995
(*d*) Official postage	5,541	7,761	5,028	18,330	16,987
(*e*) Service telegrams	769	296	371	1,436	1,588
(*f*) Sundries	10,765	9,231	9,310	29,306	29,909
Total, B-III ..	18,687	18,336	15,391	52,414	52,069
Total, B.—Establishments ..	2,59,525	2,81,023	2,83,800	8,24,348	8,19,279
Grand Total, Expenditure ..	4,58,275	5,29,935	6,03,939	15,92,149	15,88,489
Surplus ..	1,55,771	3,43,837	..	4,83,105	5,62,625
Deficit ..	...	..	16,503		
Total ..	6,14,046	8,73,772	5,87,436	20,75,254	21,51,114

ANNUAL FORM No. 60.

Forest Department, Madras Presidency.

OUTSTANDINGS and Liabilities on account of Contractors and Disbursers for the Forest year 1898–99.

	District.	Department Debtor.			Department Creditor.			Balance due	
		At commencement of year.	Recoveries in cash and value of supplies and work done during the year.	At close of year.	At commencement of year.	Payments made during year.	At close of year.	To department (outstandings).	By department (liabilities).
		RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
Northern Circle.	Conservator, Northern Circle	..	4,407 12 0	4,407 12 0	434 12 4	4,131 14 2	4,566 10 6	158 14 6	..
	Forest Settlement-officer, Ganjám, &c., districts.	..	611 13 2	611 13 2	1 10 5	648 13 3	650 7 8	38 10 6	..
	Forest Settlement-officer, Nellore, &c., districts.	..	603 4 5	603 4 5	47 12 9	606 9 2	654 5 11	51 1 6	..
	Forest School, Dehra Dun	..	60 0 0	60 0 0	18 10 8	60 0 0	78 10 8	18 10 8	..
	Ganjám	..	32,236 4 8	32,236 4 8	1,376 8 2	31,570 5 0	32,946 13 2	710 8 6	
	Vizagapatam	..	21,929 8 4	21,929 8 4	1,027 4 8	21,420 3 1	22,447 7 9	517 15 5	..
	Gódávari	..	59,464 4 11	59,464 4 11	2,672 11 3	57,950 9 0	60,623 4 3	1,158 15 4	..
	Kistna	..	63,753 10 10	63,753 10 10	1,890 1 9	63,525 5 1	65,415 6 10	1,661 12 0	..
	Kurnool	..	68,924 5 3	68,924 5 3	1,637 15 2	74,935 5 1	76,573 4 3	7,648 15 0	..
	Bellary	..	45,950 6 7	45,950 6 7	899 8 0	46,489 11 11	47,389 3 11	1,438 13 4	..
	Anantapur	..	23,680 2 6	23,680 2 6	1,032 5 9	23,672 0 2	24,704 5 11	1,024 3 5	..
	Total ..	..	3,21,621 8 8	3,21,621 8 8	11,039 4 11	3,25,010 11 11	3,36,050 0 10	14,428 8 2	..
Central Circle.	Conservator, Central Circle	..	1,022 11 7	1,022 11 7	45 11 2	1,062 5 4	1,108 0 6	85 4 11	..
	Forest Settlement-officer, North Arcot, &c., districts..	..	48 3 5	48 3 5	4 11 6	58 5 11	63 1 5	14 14 0	..
	Forest Settlement-officer, Trichinopoly, &c., districts	..	1,508 5 6	1,508 5 6	4 3 2	1,525 8 10	1,529 12 0	21 6 6	..
	Nellore	..	41,094 6 7	41,094 6 7	1,842 10 4	40,515 11 1	42,358 5 5	1,263 14 10	..
	Cuddapah	..	51,891 5 0	51,891 5 0	831 4 5	52,244 15 6	53,076 3 11	1,184 14 11	..
	Chingleput	..	23,982 12 2	23,982 12 2	800 6 1	23,890 5 6	24,690 11 7	707 15 5	..
	North Arcot	..	54,836 2 5	54,836 2 5	1,642 13 4	55,163 7 6	56,806 4 10	1,970 2 5	..
	South do.	..	39,590 8 11	39,590 8 11	1,041 0 8	39,444 14 5	40,485 15 1	895 6 2	..
			— 20 0 0	— 20 0 0				+ 20 0 0	
	Salem	..	1,30,224 0 10	1,30,224 0 10	3,778 12 0	1,36,944 5 2	1,40,723 1 2	1,0499 0 4	..
			+ 20 0 0	+ 20 0 0				— 20 0 0	
	Trichinopoly	..	21,294 11 11	21,294 11 11	249 0 5	21,687 4 9	21,936 5 2	641 9 3	..
	Tanjore	..	7,921 15 0	7,921 15 0	131 3 5	7,935 10 5	8,066 13 10	144 14 10	..
	Total ..	..	3,73,415 3 4	3,73,415 3 4	10,371 12 6	3,80,472 14 5	3,90,844 10 11	17,429 7 7	..
Southern Circle.	Conservator, Southern Circle	..	7,583 9 3	7,583 9 3	24 15 10	7,602 8 1	7,627 7 11	43 14 8	..
	Forest Settlement-officer, Malabar, &c., districts.	..	389 7 8	389 7 8	49 7 3	378 9 3	428 0 6	38 8 10	..
	Forest Settlement-officer, Trichinopoly, &c., districts	..	1,508 5 8	1,508 5 8	4 2 10	1,525 9 4	1,529 12 2	21 6 6	..
	Forest School, Dehra Dun	..	240 0 0	240 0 0	198 5 4	120 0 0	318 5 4	78 5 4	..
	The Nilgiris	..	52,963 13 5	52,963 13 5	1,271 4 2	53,053 9 7	54,324 13 9	1,361 0 4	..
	North Coimbatore ..	..	81,023 10 4	81,023 10 4	1,882 9 3	81,015 11 10	82,898 5 1	1,874 10 9	..
	South do. ..	..	46,809 13 1	46,809 13 1	1,834 6 10	46,336 2 9	48,170 9 7	1,360 12 6	..
	Madura	650 8 10	43,247 15 9	43,898 8 7	..	45,352 9 3	45,352 9 3	1,454 0 8	..
	Tinnevelly	..	60,157 7 5	60,157 7 5	7,322 13 11	55,476 4 10	62,799 2 9	2,641 11 4	..
	North Malabar	..	35,671 13 6	35,671 13 6	2,005 14 1	35,251 5 4	37,257 3 5	1,585 5 11	..
	South do.	..	54,661 13 10	54,661 13 10	2,023 0 6	53,825 0 0	55,848 0 6	1,186 2 8	..
	South Canara	..	37,395 3 11	37,395 3 11	1,089 8 1	36,856 8 2	37,946 0 3	550 12 4	..
	Total ..	650 8 10	4,21,653 1 10	4,22,303 10 8	17,706 8 1	4,16,793 14 5	4,34,500 6 6	12,196 11 10	..

MADRAS,
25th August 1899.

(Signed) P. V. KRISHNASWAMI,
Offg. Chief Superintendent.

ANNUAL FORM No. 61.

Forest Department, Madras Presidency.

REVENUE received and Outstandings on account of Revenue during the Forest year 1898–99.

	District.	Particulars.	Outstandings at commencement of year.	Value of sales and other revenue during year.	Total.	Amount realized during year.	Balance due to the department at end of year.
			Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Northern Circle.	Direction	Timber and other forest produce.	..	10 0 0	10 0 0	10 0 0	..
	Ganjám	Do. do.	..	50,217 1 7	50,247 1 7	50,246 11 3	0 6 4
	Vizagapatam ..	Do. do.	..	39,391 1 1	39,391 1 1	39,391 1 1	..
	Gódávari	Do. do.	292 8 9	1,42,465 12 2	1,42,758 4 11	1,39,083 9 11 + * 53 0 0	3,621 11 0
	Kistna	Do. do.	994 12 8	1,07,561 10 0	1,08,556 6 8	1,07,862 10 0	693 12 8
	Kurnool	Do. do.	2,437 6 7	1,27,422 11 1	1,29,860 1 8	1,25,233 4 7 + † 136 0 3 + ‡ 171 12 6	4,319 0 4
	Bellary	Do. do.	35,249 9 0	68,551 7 2	1,03,801 0 2	88,642 5 2	15,158 11 0
	Anantapur	Do. do.	41,233 0 0	35,855 9 2	77,088 9 2	63,576 6 7	13,512 2 7
		Total ..	80,207 5 0	5,71,505 4 3	6,51,712 9 3	6,14,046 0 7 + 360 12 9	37,305 11 11
Central Circle.	Direction	Timber and other forest produce.	..	7 0 0	7 0 0	7 0 0	..
	Nellore	Do. do.	3,930 0 0	1,17,187 6 1	1,21,117 6 1	1,18,183 15 0	2,933 7 1
	Cuddapah	Do. do.	5,336 14 4	1,42,666 2 1	1,48,003 0 5	1,41,487 3 1 + § 196 6 0 + ‖ 76 8 0	6,242 15 4
	Chingleput	Do. do.	15,345 1 10	42,948 1 11	58,293 3 9	47,797 3 8	10,496 0 1
	North Arcot	Do. do.	63,768 6 2	92,226 0 6	1,55,994 6 8	1,26,628 1 10 + † 2,848 14 9	26,517 6 1
	South Arcot	Do. do.	27,211 9 0	77,821 7 5	1,05,033 0 5	95,000 14 5	10,032 2 0
	Salem	Do. do.	15,363 13 10	2,89,351 13 9	3,04,715 11 7	2,64,469 0 7	40,246 11 0
	Trichinopoly ..	Do. do.	18,819 9 6	59,393 13 11	69,213 7 5	63,368 7 2 + * 71 0 0	5,774 0 3
	Tanjore	Do. do.	1,656 14 0	17,771 6 5	19,428 4 5	16,919 7 5	2,508 13 0
		Total ..	1,51,432 4 8	8,30,373 4 1	9,81,805 8 9	8,73,861 5 2 + 3,192 12 9	1,04,751 6 10
Southern Circle.	Direction	Timber and other forest produce.	..	..	..	..	..
	The Nilgiris ..	Do. do.	1,622 13 10	60,324 5 2	61,947 3 0	60,885 8 8	1,061 10 4
	North Coimbatore ..	Do. do.	528 12 0	1,25,421 4 4	1,25,950 0 4	1,25,843 7 4	106 9 0
	South do. ..	Do. do.	5,307 7 11	63,107 3 11	68,414 11 10	66,180 3 10	2,234 8 0
	Madura	Do. do.	59,418 11 9	1,03,000 1 6	1,62,418 13 3	83,639 7 4 + † 4,029 6 6	74,749 15 5
	Tinnevelly	Do. do.	5,525 1 0	98,777 0 8	1,04,302 1 8	95,967 12 11	8,334 4 9
	North Malabar ..	Do. do.	1,209 2 11	56,399 2 1 £18 15 0	57,608 5 0 ¶ £18 15 0	30,026 0 10	27,582 4 2 ¶ £18 15 0
	South do. ..	Do. do.	7,478 12 0	71,196 10 4	78,675 6 4	67,261 15 9	11,413 6 7
	South Canara ..	Do. do.	1,019 0 7	57,528 7 9	58,547 8 4	57,631 6 4	916 2 0
		Total ..	82,109 14 0	6,35,754 8 9	7,17,864 1 9	5,87,435 15 0 + 4,029 6 6	1,26,398 12 3 £18 15 0

* Written off under Government Order, No. 132, Revenue, dated 21st February 1899.
† Written off under Government Order, No. 726, Revenue, dated 29th November 1898.
‡ Written off under Government Order, No. 173, Revenue, dated 22nd March 1898.
§ Written off under Government Order, No. 374, Revenue, dated 2nd July 1898.
‖ Written off under Government Order, No. 504, Revenue, dated 31st August 1898.
¶ This is the figure shown in form No. 9 for June 1899 of this district.

MADRAS,
25th August 1899.

(Signed) P. V. KRISHNASWAMI,
Offg. Chief Superintendent.

Annual Form No. 62.

Forest Department, Madras Presidency.

Financial Results of the year 1898-99.

Districts.	Timber and other produce removed from the forests by Government Agency.		Other revenue		Formation, protection and improvement of forests.	Total.	
	Receipts.	Charges.	Receipts.	Charges.	Charges.	Receipts.	Charges.
Northern Circle.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Ganjám	12,235	8,178	38,015	23,023	20,875	50,250	52,076
Vizagapatam	1,856	2,534	37,536	16,864	16,594	39,392	35,992
Godávari	3,379	1,547	1,35,706	54,151	25,949	1,39,085	81,647
Kistna	1,117	1,020	1,06,748	33,617	42,759	1,07,865	77,396
Kurnool	13,134	8,546	1,12,101	47,468	50,974	1,25,235	1,06,988
Bellary	7,638	9,357	81,005	25,319	28,257	88,643	62,933
Anantapur	..	1	63,576	23,978	17,264	63,576	41,243
Total ..	39,359	31,183	5,74,687	2,24,420	2,02,672	6,14,046	4,58,275
Central Circle.							
Cuddapah	18,720	11,789	1,22,767	40,459	53,502	1,41,487	1,05,750
Nellore	46,309	26,207	71,875	19,383	18,593	1,18,184	64,183
Chingleput .. .	3,211	1,861	44,497	17,884	13,972	47,708	33,717
North Arcot	5,486	6,208	1,21,142	27,348	36,825	1,26,628	70,381
South Arcot	2,122	3,727	92,879	24,763	28,890	95,001	57,380
Salem	1,05,917	84,198	1,58,559	38,499	33,089	2,64,476	1,55,786
Trichinopoly	10,069	5,358	53,300	17,007	13,161	63,369	35,526
Tanjore	10	399	16,909	3,866	2,947	16,919	7,212
Total ..	1,91,844	1,39,747	6,81,928	1,89,209	2,00,979	8,73,772	5,29,935
Southern Circle.							
South Canara	20,253	29,572	37,378	11,807	18,204	57,631	59,583
North Malabar	21,849	29,775	8,177	638	48,400	30,026	78,813
South Malabar	57,809	42,469	9,453	64	23,298	67,262	65,831
The Nilgiris	39,588	48,596	21,298	4,272	29,836	60,886	82,704
North Coimbatore ..	51,219	27,130	74,624	4,963	75,879	1,25,843	1,07,972
South Coimbatore ..	20,206	40,651	45,974	14,415	31,755	66,180	86,821
Madura	592	3,127	83,048	7,520	43,590	83,640	54,237
Tinnevelly	10,727	21,943	85,241	3,238	42,797	95,968	67,978
Total ..	2,22,243	2,43,263	3,65,193	46,917	3,13,759	5,87,436	6,03,939
Grand Total ..	4,53,446	4,14,193	16,21,808	4,60,546	7,17,410	20,75,254	15,92,149

ANNUAL FORM No. 64.

Forest Department, Madras Presidency.

ABSTRACT showing the Value of Live-stock, Stores, Tools and Plant for 1898–99.

	Districts.	Surveying, &c., instruments				Tools				Machinery				Furniture				Building materials, small stores, tents, boats, &c.			
		On hand at commencement of the year.		On hand at end of the year.		On hand at commencement of the year.		On hand at end of the year.		On hand at commencement of the year.		On hand at end of the year.		On hand at commencement of the year.		On hand at end of the year.		On hand at commencement of the year.		On hand at end of the year.	
		Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.
1		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
			Rs.		Rs.		Rs.		Rs.		Rs.		Rs.		Rs.		Rs.		Rs.		Rs.
Northern Circle.	Direction	24	452	25	420	11	27	11	20	..	..	..	..	75	625	75	550	5	815	5	650
	Ganjám	45	535	44	442	301	154	329	167	..	..	..	..	95	1,423	125	1,887	..	..	..	..
	Vizagapatam	42	811	41	685	299	269	320	211	..	..	..	..	136	1,330	136	1,003	6	217	6	405
	Gódávari	111	517	111	517	581	1,308	967	1,776	1	102	1	102	435	2,186	517	2,536	21	3,756	21	3,804
	Kistna	73	890	82	827	501	263	512	277	..	..	..	..	130	594	133	552	8	2,456	6	2,416
	Kurnool	80	803	83	859	1,003	966	1,000	827	..	..	..	..	135	600	136	515	8	2,223	7	1,758
	Bellary	97	263	97	247	547	603	547	560	..	..	..	..	64	450	68	431	6	857	6	831
	Anantapur	53	210	53	210	293	669	379	638	..	..	..	..	116	661	119	647	4	634	4	634
	Total, Northern Circle.	525	4,481	536	4,207	3,536	4,259	4,065	4,526	1	102	1	102	1,186	7,869	1,308	8,121	58	10,957	55	10,498
Central Circle.	Direction	43	744	43	705	4	15	4	14	..	..	..	..	120	837	121	756	5	780	5	702
	Cuddapah	125	1,058	125	1,057	580	1,540	566	10,630	1	9,636	..	..	129	960	129	962	..	..	..	..
	Nellore	69	622	68	542	419	878	445	1,178	247	35,031	261	31,744	92	652	92	588	4	681	4	614
	Chingleput	19	153	37	383	414	550	444	515	..	..	..	..	117	556	159	829	4	684	4	..
	North Arcot	44	584	73	685	837 cwt. 33	593	838 cwt. 33	565	14	63	12	57	285	850	424	1,291	6	579	6	550
	South Arcot	115	1,825	111	1,804	494	303	448	268	7	401	9	398	172	1,850	2,034	1,945	6	718	9	1,128
	Salem	135	1,450	136	1,465	1,604	2,823	1,759	3,785	2	21	2	21	349	1,776	444	2,000	..	..	..	..
	Trichinopoly	57	510	53	499	1,029	542	1,028	541	2	5	..	..	129	726	142	827	4	618	4	618
	Tanjore	20	90	20	90	69	52	71	44	..	..	..	..	34	298	40	326	2	217	..	..
	Total, Central Circle	* 627	7,036	666	7,230	5,450 cwt. 33	7,296	5,603 cwt. 33	17,540	273	45,157	284	32,220	1,427	8,505	3,585	9,524	31	4,276	32	3,612
Southern Circle.	Direction	41	444	42	462	2	45	2	45	..	..	..	..	108	827	108	794	5	764	5	733
	South Canara	116	1,146	118	1,176	542	788	480	734	..	..	..	..	166	1,343	178	1,394	6	725	8	951
	North Malabar	72	1,462	26	963	586	1,379	491	1,160	..	..	..	..	108	906	140	944	..	..	..	..
	South Malabar	33	875	35	831	681	770	737	645	20	161	25	156	† 96	766	103	786	4	412	4	343
	The Nilgiris	64	1,062	66	1,077	659	1,505	530	1,426	1	200	1	200	151	1,133	146	1,261	6	679	8	896
	North Coimbatore	70	1,236	63	913	532	923	526	424	..	..	..	..	168	1,244	193	713	97	1,418	87	1,354
	South Coimbatore	89	1,540	101	1,487	660	887	682	945	7,766 19,650 ft.	16,993	6,919 19,650 ft.	16,230	579	2,589	647	2,563	9	1,063	9	1,009
	Madura	82	1,838	87	1,902	166	199	207	262	5	6	5	6	199	1,529	231	1,795	2,016	1,689	796	1,357
	Tinnevelly	105	1,611	91	1,596	606	1,421	549	1,170	15	289	18	302	† 464	† 2,432	575	2,430	† 4	† 682	7	682
	Total, Southern Circle	672	11,220	629	10,407	4,434	7,917	4,204	6,811	7,807 19,650 ft.	17,649	6,968 19,650 ft.	16,894	2,039	12,769	2,321	12,680	2,147	7,432	924	7,325
	Total, Presidency	1,824	22,737	1,831	21,844	13,420 cwt. 33	19,472	13,872 cwt. 33	28,877	8,081 19,650 ft.	62,908	7,253 19,650 ft.	49,216	4,652	29,143	7,214	30,325	2,236	22,666	1,011	21,435

* Correction.

† Revised figures.

Abstract showing the Value of Live-stock, Stores, Tools and Plant for 1898-99—*cont.*

	Districts.	Buildings				Live-stock				Miscellaneous				Total.					
		On hand at commencement of the year.		On hand at end of the year.		On hand at commencement of the year.		On hand at end of the year.		On hand at commencement of the year.		On hand at end of the year.		On hand at commencement of the year.		On hand at end of the year.		Difference in value	
		Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	In favour of the year.	Against the year.
		22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
			Rs.		Rs.		Rs.		Rs.		Rs.		Rs.		Rs.		Rs.	Rs.	Rs.
Northern Circle.	Direction	..	..	..	..	..	..	..	..	1	103	1	100	116	2,022	117	1,740	..	282
	Ganjám	29	15,886	31	15,984	..	..	..	..	..	..	..	..	470	17,998	529	18,430	482	..
	Vizagapatam	18	1,035	41	5,852	1	..	1	..	199	407	61	108	701	4,069	603	8,264	4,195	..
	Gódávari	60	29,656	71	32,069	2	..	2	..	269	342	556	782	1,480	37,867	2,243	41,536	3,719	..
	Kistna	69	11,081	77	12,335	..	..	..	..	15	337	..	..	796	15,620	810	16,407	787	..
	Kurnool	60	33,593	61	35,037	1	1,600	1	1,600	30	165	36	223	1,317	39,950	1,323	40,819	869	..
	Bellary	22	3,729	25	4,365	..	..	..	..	33	128	33	116	769	6,030	776	6,550	520	..
	Anantapur	16	15,619	15	14,619	..	..	..	..	..	..	..	..	482	17,793	570	16,798	..	995
	Total, Northern Circle.	274	1,10,599	321	1,20,261	4	1,600	4	1,600	547	1,482	687	1,329	6,131	1,41,349	6,977	1,50,644	9,295	..
Central Circle.	Direction	..	..	..	..	..	..	..	..	38	639	39	608	210	3,015	213	2,785	..	230
	Cuddapah	115	20,618	118	21,521	2	56	2	56	..	..	..	..	952	33,868	940	34,226	358	..
	Nellore	10	3,537	10	4,434	..	..	..	..	317	6,419	228	3,019	1,158	47,821	1,108	42,119	..	5,702
	Chingleput	20	5,970	17	4,985	..	..	..	..	43	66	115	169	617	7,977	776	6,881	..	1,096
	North Arcot	46	9,450	51	10,460	..	..	..	..	..	..	..	..	1,232 cwt. 33	12,119	1,403 cwt. 33	13,608	1,489	..
	South Arcot	20	19,803	19	19,746	..	..	..	..	508	1,546	590	1,552	1,322	26,446	3,220	26,841	395	..
	Salem	21	15,900	22	16,500	..	..	..	..	22	1,512	32	2,000	2,133	23,482	2,395	25,771	2,289	..
	Trichinopoly	8	2,670	8	2,795	..	..	..	..	1,291	922	2,305	952	2,520	5,993	3,540	6,252	259	..
	Tanjore	7	631	7	631	..	..	..	..	45	105	41	104	177	1,393	179	1,195	..	198
	Total, Central Circle.	247	78,579	252	81,072	2	56	2	56	2,264	11,209	3,350	8,404	10,321 cwt. 33	1,62,114	13,774 cwt. 33	1,59,658	..	2,456
Southern Circle.	Direction	..	..	..	..	..	..	..	..	676	610	680	625	832	2,690	837	2,659	..	31
	South Canara	14	7,603	14	7,603	2	..	2	..	635	1,894	626	1,794	1,481	13,499	1,426	13,672	153	..
	North Malabar ..	..	..	..	..	14	26,400	15	23,550	..	..	..	..	780	30,147	672	26,617	..	3,530
	South do.	32	39,678	33	37,674	16	26,885	18	33,700	223	1,437	264	1,334	1,105	70,984	1,219	75,469	4,485	..
	The Nilgiris	63	9,354	62	9,911	7	7,900	7	7,900	23	198	19	158	974	22,031	829	22,829	798	..
	North Coimbatore ..	57	18,339	60	25,400	..	..	..	..	107	253	113	185	1,031	23,413	1,042	28,989	5,576	..
	South do. ..	53	29,909	57	30,227	8	18,300	7	13,500	142	987	177	977	9,306 19,650 ft.	72,274	8,599 19,650 ft.	66,988	..	5,336
	Madura	52	25,211	51	25,143	..	..	..	..	541	558	608	445	3,061	31,030	1,984	30,970	..	120
	Tinnevelly	118	28,763	70	28,821	..	..	..	..	..	..	..	..	1,312	35,198	1,310	35,001	..	197
	Total, Southern Circle.	389	1,58,857	347	1,64,779	47	79,485	49	78,650	2,347	5,937	2,487	5,518	19,882 19,650 ft.	3,01,266	17,929 19,650 ft.	3,03,064	1,798	..
	Total, Presidency ..	910	3,48,035	920	3,66,112	53	81,141	55	80,306	5,158	18,628	6,524	15,251	36,334 cwt. 33 19,650 ft.	6,04,729	38,680 cwt. 33 19,650 ft.	6,13,366	8,637	..

ANNUAL FORM No. 63.

Forest Department, Madras Presidency.

STATEMENT of Elephants during the year 1898–99.

District.	Names.	When purchased or otherwise obtained by Government.	Cost of monthly keep, including servants and food.	
1	2	3	4	

PART I.

Elephants in possession of the Reporting Officers throughout the year.

				Rs. A. P.
Vizagapatam ..	Ethel	Transferred from Southern Circle on 3rd December 1897.	Per head ..	72 2 8
Gódávari ..	1. Surat Pari	Purchased in November 1894 in Sonepur fair.	Do. ..	58 13 4
	2. Captain Gunning ..	Purchased in July 1888 and transferred from direction Northern Circle on 15th November 1897.	Do. ..	58 13 4
Kurnool	Byragi Piari	Purchased in November 1894 in Sonepur fair.	Do. ..	53 5 4
North Malabar ..	1. Phyllis	Purchased in January 1878	Do. ..	57 10 8
	2. Peri	Captured in April 1889	Do. ..	60 4 1
	3. Kalyani	Purchased in October 1889	Do. ..	61 3 3
	4. Lallameah	Captured in March 1891	Do. ..	57 8 8
	5. Krishna	Do. on 3rd March 1896	Do. ..	57 11 4
	6. Pyramus	Do. on 15th April 1897	Do. ..	53 3 9
	7. Zelica	Do. on 17th February 1898 ..	Do. ..	63 3 3
	8. Isabella	Do. on 17th February 1898 ..	Do. ..	61 5 1
	9. Chakravarthini ..	Do. on 10th March 1896	Do. ..	63 15 10
South Malabar ..	1. Vixen	Transferred from Wynaad in 1882 ..	Do. ..	37 9 3
	2. Peyru			
	3. Samson	Purchased from Mr. Morgan in 1885..		
	4. Eva			
	5. Theebow	Captured on 3rd January 1886 ..		
	6. Juno	Do. on 17th February 1886 ..		
	7. Jupiter	Do. on 9th January 1887		
	8. Maharajah	Transferred from Wynaad on 29th September 1888.		
	9. Gordon	Captured on 11th February 1889 ..		
	10. Eddy	Do. on 10th February 1890 ..		
	11. Loo	Do. on 21st April 1890		
	12. Hercules	Do. on 24th December 1890 ..		
	13. Tippu	Do. on 25th February 1893 ..		
	14. May	Do. on 23rd November 1894 ..		
	15. Abdul	Do. on 4th October 1891 and transferred from South Coimbatore on 18th June 1896.		
South Canara ..	1. Mohidien Khan ..	Captured on 3rd January 1896 and transferred from North Malabar on 3rd September 1897.	Do. ..	43 10 3
	2. Padmini	Captured on 8th February 1896 and transferred from North Malabar on 3rd September 1897.		
The Nilgiris ..	1. Latchmi	Transferred from the Anamalais on the 30th January 1882	Do. ..	53 12 2
	2. Chinna Latchmi ..			
	3. Akbar Baksh	Born on 22nd February 1888		
	4. Meenatchi	Do. in 9th April 1889		
	5. N. Latchmi	Purchased in September 1894		
	6. Seetha	Transferred from North Malabar in June 1896.		
	7. Zahara	Captured on 14th March 1896 and transferred from North Malabar on the 12th November 1896.		
South Coimbatore.	1. Karthiyayini	Arrived from South Malabar, August 1888.	Do. ..	43 3 3
	2. Sinna Rani	Do. do. on the 19th August 1891		
	3. Phyllis, II	Captured on 25th September 1892 ..		
	4. Jumbo, II			
	5. Ranger	Do. on 23rd July 1893		
	6. Dora	Do. on 16th March 1894 and transferred from South Malabar on 25th December 1896.		

Statement of Elephants during the year 1898-99—*cont.*

District.	Names.	When purchased or otherwise obtained by Government.	Cost of keep including servants and food.	How disposed of.
1	2	3	4	5
	PART II.			
	Elephants received in the year.			
			RS. A. P.	
North Malabar.	1. Begum Johan ..	By birth on 8th January 1899.	Per head. 3 3 0	....
	2. Tippu Sultan ..	Captured on 22nd February 1899.	Do. 64 13 10	....
	3. Lala Ruk ..	Captured on 13th March 1899.	Do. 38 1 9	....
	4. Smith	Do. on 14th May ,,	Do. 44 15 9	....
	5. Sirdar	Do. on 11th June ,,	Do. 42 5 0	....
	6. Emily	Do. on 23rd June ,,	Do. 36 9 4	....
South Malabar.	1. Nurmahal ..	Transferred from North Malabar.	Do. 37 6 8	....
	2. Devagi	Captured on 16th January 1899.	Do. 45 12 7	....
	3. Tommy		Do. 21 11 11	....
	4. Janaki	Captured on 8th February 1899.	Do. 44 14 10	....
South Coimbatore.	1. Peria Rani ..	Received back from Public Works Department on 13th July 1898.	Do. 49 12 11	....
	2. Bamboosa ..	Captured on 27th July 1898.	Do. 25 14 10	....
	3. Hugh			
	4. Christie ..	Do. on 28th ,, ,,	Do.	
	5. Mona	Do. on 8th August ,,	Do. 10 6 9	....
	6. Kunjunni ..	Received from North Malabar on 23rd November 1898.	Do. 28 10 10	....
	7. Bagavathi ..	Received from Public Works Department on 10th December 1898.	Do. 30 2 7	....
	PART III.			
	Elephants gone off the list during the year.			
North Malabar.	1. Cherry	Captured in May 1892 ..	Per head. 52 5 7	Died on 7th January 1898.
	2. Kunjunni ..	Do. on 17th March 1897.	Do. 50 9 10	Sent to South Coimbatore on 28th October 1898.
	3. Minie	Do. on 8th June ,,	Do. 118 7 6	Shot on 5th August 1898.
	4. Hyderali	Do. on 8th Feb. 1898.	Do. 60 12 1	Ran away on 19th September 1898.
	5. Nurmahal ..	Do. on 25th Feb. ,,	Do. 51 8 0	Sent to South Malabar on 28th October 1898.
	6. Lala Ruk ..	Do. on 13th March 1899.	Do. 38 1 9	Died on 23rd March 1899.
South Malabar.	1. Rose	Do. on 8th Feb. 1898 ..	Do. 35 14 11	Sold in auction in September 1898.
	2. Tommy	Do. on 16th Jan. 1899.	Do. 21 11 11	Given to the Zamorin on payment of three-fourths of the value in June 1899.
South Coimbatore.	1. Chloe	Arrived from North Malabar on 28th June 1888.	Do. 46 12 10	Died on 17th October 1898.
	2. Parvathi ..	Arrived from South Malabar on 23rd June 1898.	Do. 47 4 6	Transferred to Public Works Department on 7th December 1898.
	3. Bamboosa ..	Captured on 27th July 1898.	Do.	Died on 17th March 1899.
	4. Hugh	Do. on 27th July ,,	Do. 25 14 11	Sold to the Manager of Deval's Circus for Rs. 800.
	5. Christie	Do. on 28th ,, ,, ..	Do. ..	Sold to the Manager of Deval's Circus for Rs. 700.
	6. Kunjunni ..	Captured on 17th March 1897 and received from North Malabar on 23rd November 1898.	Do. 28 10 10	Transferred to Public Works Department on 7th December 1898.

GOVERNMENT OF MADRAS.

REVENUE DEPARTMENT.

READ—the following Proceedings of the Board of Revenue (Land Revenue), Forest No. 491, dated 15th November 1899 :—

Resolution—Forest No. 491, dated 15th November 1899.

The Board submits to Government the progress report of Forest Administration in the Madras Presidency for the year ending 30th June 1899, which, in accordance with the usual practice, has been compiled by Mr. Peet, the Acting Senior Conservator of Forests.

2. Further information had to be called for from several districts and replies from some of them were not received until the last week of October. Mr. Peet was consequently unable to submit the report in print to the Forest Member until the 14th November. The Board has to acknowledge the cordial assistance which has been rendered by the Conservators and by the District Forest-officers almost without exception. A specially careful and interesting report on the possibility of undertaking the supply of railway sleepers was submitted during the year by Mr. Gass, Acting Conservator of Forests, Southern Circle.

(True Extract.)

(Signed) W. FRANCIS,
Acting Secretary.

To the Secretary to Government, Revenue Department,
with 3 copies of the report.

ORDER—No. 406, Revenue, dated 30th April 1900.

Forest No. 88.

With its Proceedings read above the Board of Revenue submits its report on the administration of the Forest department during the year 1898–99. The report has been compiled by Mr. Peet, the senior Conservator on duty. It deals with the work of the department during the sixth and last year that it has been under the charge of the Hon'ble Mr. J. Sturrock, late a member of the Board of Revenue.

Mr. Sturrock's administration has been marked with zeal for the professional success of the department accompanied by a clear perception of and keen sympathy with the needs of the people. The results achieved have been conspicuously successful.

His Excellency the Governor in Council desires to take this opportunity of placing on record his recognition of the excellent services rendered by Mr. Sturrock as head of the Forest department.

2. The important features of the past year's work will be noticed.

Extension and Constitution of State Forests.

3. *Alteration of Area.*—The following table exhibits the changes under the two main heads, reserved forests and reserved lands, that took place during the year in the area under the control of the department.

—	Area on 1st July 1898.	Area added during 1898-99.	Area excluded during 1898-99.	Net increase or decrease.	Area on 30th June 1899.
	SQ. MILES.	SQ. MILES.	SQ. MILES.	SQ. MILES.	SQ. MILES.
Reserved forest	13,775	1,219	106	+ 1,113	14,888
,, lands	5,478	504	1,276	— 772	4,706
Total ..	19,253	1,723	1,382	+ 341	19,594

The total area under control on 30th June 1899 was 37·87 per cent. of the unoccupied area of the Presidency excluding zamindari tracts and whole inam villages. Complaints of undue extension of control have been made in the Kurnool district only; and the Government is glad to notice that the Board has instituted the necessary enquiries into the matter.

4. *Forest Settlement.*—Settlement work made greater progress than in the previous year. Not only were a larger number and a greater area of blocks finally constituted reserved forests as shown in the following statement, but the work done by the Forest Settlement-officers generally was greater:—

—	1895-96.		1896-97.		1897-98.		1898-99.	
	Number of blocks.	Area in square miles.	Number of blocks.	Area in square miles.	Number of blocks.	Area in square miles.	Number of blocks.	Area in square miles.
Finally constituted reserved forests.	185	858	136	845	132	652	206	1,015

5. There were initially notified for reservation 167 blocks with an area of 493 square miles. This is scarcely an improvement on the previous year when 128 blocks with an area of 515 square miles were so notified. The Board remarks that the number of blocks ready for settlement in the southern districts was insufficient to justify the appointment of a *locum tenens* during the absence of Mr. Gompertz on leave. It would appear therefore that the work of selection and initial notification is not keeping pace with that of settlement. The Government notes from Board's Proceedings, No. 455, dated 26th October 1899, that the Board is taking special measures to prevent delay in the issue of initial notifications. It is essential to the preparation of proper and well considered plans of operations that reservation in all districts should be practically completed at as early a date as possible.

6. From the statements submitted by the Board it would appear that 431 blocks of a total area of 3,148 square miles have been initially notified but not yet finally constituted reserved forests; that there are 1,558 square miles of reserved lands not yet brought under settlement; and that an area of some 652 square miles has been or is likely to be selected but has not yet been brought under the Forest Act. Thus on the whole an area of about 5,358 square miles remains still to be dealt with. At the present rate of progress the work of Forest Settlement may be estimated to take some six years more to complete.

7. *Preliminary survey and demarcation.*—It is noticed that the work of the departmental surveyors and draughtsmen was generally satisfactory. The nature and cost of the preliminary demarcation varied as usual in different districts. On the whole 1,575 miles, or 119 miles more than in the previous year, were demarcated at the average cost of Rs. 3-1-9 per mile against Rs. 3-7-10 in the previous year.

8. *Permanent demarcation survey and mapping of settled reserves.*—The following statement compares the amount of permanent demarcation newly done and of reclearing of permanent lines during the last three years :—

	Permanent demarcation.			Reclearing of old lines, &c.		
	1896-97.	1897-98.	1898-99.	1896-97.	1897-98.	1898-99.
	MILES.	MILES.	MILES.	MILES.	MILES.	MILES.
Northern circle	509	595	678	1,150	1,106	1,697
Central circle	629	1,021	637	1,327	1,001	2,875
Southern circle	238	348	258	549	697	409
Total ..	1,376	1,964	1,573	3,026	2,804	4,981
	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
Average cost per mile	12 2 5	11 3 10	11 11 0	4 12 0	3 12 6	2 7 0

The year's work was thus, on the whole, considerably in excess of the average outturn. The length of line newly demarcated was less than in the preceding year, but that of old lines recleared was very considerably greater. The cost per mile of the demarcation was about the average of the last three years.

9. As in the previous year the Survey of India Parties Nos. 9 and 19 were at work in the Presidency. A total area of 1,350 square miles was topographically surveyed, this being a larger outturn than in any previous year; at the same time the cost per square mile fell from Rs. 119 to Rs. 74. This satisfactory result is ascribed to better organization.

10. The preparation of forest maps continues to keep pace with the extension of reserved forests. During the year final maps were prepared for 1,004 square miles of reserves. Maps are now ready for a total area of 8,518 square miles.

Management of State Forests.

11. *Working plans and plans of annual operations.*—The Government is glad to note that more attention was paid during the year under review to the preparation of working plans; but the progress made in this direction can hardly be yet considered adequate. According to the report under review there were at the beginning of the year working plans in force over 136 square miles of reserves, while plans for 1,104 square miles were under preparation. During the year plans were sanctioned for 3 square miles only, but in addition 467 square miles were taken in hand. Thus at the end of the year working plans were ready or in preparation for only 1,710 square miles out of a total area of 19,594 square miles of reserves.

The Board has, however, recently taken special measures to push on the compilation of working plans; and the Inspector-General of Forests has recently visited the Presidency to consult with, and to advise, Conservators on this subject. The Government therefore hopes that future reports will show greater advance in the direction of bringing the reserves under suitable working plans.

The annual plans of operations were generally adhered to in all districts except South Coimbatore. In this district the annual plan seems to have been entirely departed from for reasons which are not definitely indicated in the report. Such changes are apt to engender bad work and the Government trusts that the Board is satisfied that they were necessary.

12. *Communications and buildings.*—There was a substantial increase in the outlay on roads and bridges—Rs. 38,614 having been expended as against Rs. 33,689 in the previous year. The Board has not yet been able to devise a satisfactory

method of estimating the utility of the various forest tramways; but it seems fairly certain that the Cuddapah tramway does not pay its way and it is noted that it is to be transferred to Nellore.

13. *Forest offences.*—The following table exhibits the number and mode of disposals of cases relating to forest offences during the last three years:—

Years.	Number of cases for disposal.			Number of cases disposed of.				Number of acquittals.	Percentage of cases compounded to cases disposed of.	Percentage of acquittals to cases dealt with by the Magistracy.
	Cases pending.	New cases.	Total.	Withdrawn.	Compounded.	Dealt with by the Magistracy.	Total.			
1896-97	1,580	11,638	13,218	1,624	5,793	4,025	11,442	672	50·6	16·7
1897-98	1,776	14,993	16,769	2,420	7,694	4,474	14,588	650	52·7	14·5
1898-99	2,200	18,295	20,495	2,364	10,070	5,697	18,131	754	55·5	13·2

The total number of cases reported during 1898–99 increased by 22 per cent. over those of the previous year. The increase has mainly to be ascribed to the strengthening of the subordinate establishments in recent years. Cases of grave crime were comparatively absent. The increase was chiefly under the heads "Unauthorized felling, &c.," and "Illicit grazing," that is, under those classes of offences most likely to escape detection by an insufficient establishment.

In Trichinopoly, the increase in forest offences reported is ascribed to the prohibition imposed during the first half of the year—the manuring season—on the removal of manure-yielding leaves from the Pachamalai reserve. The prohibition was, however, the Government understands, necessary in the interest of good forest management in order to give the forests rest. It is unsatisfactory to note that the increase under "Illicit grazing" in Kurnool is ascribed to the injudicious extension of reservation noticed in paragraph 3 above. No material decrease in forest offences is to be expected until the methods and aims of forest management are better understood and appreciated by the people.

Of the total number of cases disposed of during the year, 31·4 per cent. were taken into Court, the remainder being either withdrawn or compounded.

Of the cases prosecuted the percentage of acquittals fell from 14·5 in the previous year to 13·2. It is also satisfactory to note, as showing that doubtful or trivial cases were less frequently reported, that the number of cases withdrawn was smaller than in the previous year, notwithstanding the fact that in some districts undetected cases were returned as withdrawals. The number of cases compounded increased from 7,694 to 10,070, but the amount of compensation levied increased but slightly from Rs. 61,883 to Rs. 63,643. As pointed out by the Board, the fact that a smaller amount of compensation was levied in each case goes to show that important cases were not compounded as a rule; but it must not be forgotten that the ryots will, in general, be willing to pay a small sum to avoid the trouble and worry of being prosecuted even on a false charge. The Board and Collectors should continue carefully to watch the manner in which the power to compound is exercised.

14. *Fire Protection.*—Measures of protection were taken over 5,126 square miles of reserves at a cost of Rs. 34,532, and were successful as regards 96·3 per cent. of this area. This is an improvement on the results of the previous year, when only 93·6 of the protected area escaped from fire. The most serious loss was in North Malabar, where nearly 64,000 acres of forest were burnt through. Malicious firing was fortunately much less rife than in the previous year and led to the burning of 1,789 acres only. The most important case of this kind appears to have been in North Coimbatore, where a deliberate attempt was made to destroy a sandalwood plantation.

15. *Regulation of Grazing.*—The following statement shows the extent to which the forests were opened to grazing:—

Year.	Total area under control.	Closed to all animals.		Closed to goats or sheep or both.		Open to all animals.
		Whole year.	Part of year.	Whole year.	Part of year.	Whole year.
	SQ. MILES.	SQ. MILES.	SQ. MILES.	SQ. MILES.	SQ. MILES.	SQ. MILES.
1897–98	19,253	1,792	233	13,029	4,851	1,373
1898–99	19,594	1,824	132	* 18,475	..	† 1,119

* Of these 16,421 square miles were closed to goats only.
† Of these 123 square miles were reserved for goats.

The question of providing for goats continues to be one of great difficulty. In South Arcot the demand is most pressing and cases of illicit goat-browsing are comparatively frequent; but it has been found that after providing for cattle and sheep no provision can be made for goats in the reserves. It is satisfactory, however, to note that in Cuddapah, North Arcot and Madura, where also illicit goat-browsing is common, schemes have been put in working or are under consideration for throwing open larger areas to the goat. It is also satisfactory to observe that steps have been taken to modify the grazing arrangements complained of in Kurnool.

From statement No. 53 appended to the report it will be seen that during the year the Government reserves afforded grazing representing at full rates a value of Rs. 4,20,756 to 2,618,824 head of cattle of all kinds.

16. *Improvement in forest growth.*—The season was, on the whole, favourable to natural reproduction except in Cuddapah and Nellore.

A good deal of interesting work was done under artificial reproduction, plantations, and cultural operations. In particular, it is noted that the *teak*-planting undertaken in South Canara promises to be a success. A special report is due on *bamboo*-planting in South Arcot. Experiments were continued. *Ceara rubber* does not appear to have begun well at Mount Stuart, only 474 seeds having germinated out of 5,000 sown in nurseries. The *date*-planting undertaken during the year was not more successful than in the previous year, and from North Arcot alone it is reported that the existing plants are doing fairly. *Mahogany* failed at Mudumalai and Benne in the Nilgiris and also in Bellary and Kurnool, but has been more or less successful in Cuddapah, Chingleput, North and South Arcot, Tanjore, North and South Malabar and South Coimbatore.

17. *Exploitation of major and minor produce.*—In all districts inferior classes of timber, fuel and bamboos were removed under permit to meet local demands.

Selection fellings were conducted chiefly to obtain wood for seasoning and subsequent conversion into sleepers, to meet the demands of the Ordnance Department and to supply fuel.

Grazing yielded a substantially larger revenue than in the previous year. This is ascribed chiefly to the improved season and to more careful supervision.

Due attention was paid to the exploitation of various kinds of minor produce.

Gross yield and outturn of Forest Produce.

18. The following statement compares the total yield of the forests for the years 1897–98 and 1898–99 :—

Years.	Timber including sandalwood.	Fuel.	Bamboos.	Minor produce, gross value.
	C. FT.	C. FT.	NO.	RS.
1897–98	2,619,793	11,922,428	29,317,049	9,98,993
1898–99	2,676,493	13,379,726	26,081,017	9,86,824
Increase or decrease in 1898–99 as against 1897–98	+ 56,700	+ 1,457,298	— 3,236,032	— 12,169
Percentage of the increase or decrease abovementioned	+ 2·16	+ 12·22	— 11·03	— 1·21

There was an increase in the outturn of timber and fuel, but a fall in that of bamboos and minor produce.

The increase was due chiefly to more extended departmental operations undertaken to accumulate stock for railway sleepers and to meet the demands of the Ordnance Department. The quantity of produce disposed of departmentally was somewhat greater than in the previous year except as regards sandal-wood and minor produce, but its value was less being Rs. 4,49,647 as compared with Rs. 4,78,301. As regards produce removed directly by purchasers there were marked decreases both in quantity and value under the heads of *Timber*, *Bamboos* and *Minor Produce* which were only partly counterbalanced by an increase under *Grazing*. On the whole, the total value of removals by purchasers amounted to Rs. 15,18,314 as compared with Rs. 16,17,729 in the previous year. The principal causes of the fall appear to be restricted fellings in the interests of forest management and want of demand owing to depression of trade on account of plague. The total value of the forest revenue during the year was Rs. 20,37,914, a fall of Rs. 2,17,754 as compared with the previous year. Excluding the decreases noticed above in the value of the produce removed by departmental and by private agency which amount to Rs. 1,28,069, the balance Rs. 89,685 must have occurred under the head of miscellaneous revenue. This decrease is not fully explained in the report which only touches on the fall in collections under this head.

Financial Results.

19. The following statement exhibits the financial results of the year:—

—	Receipts.	Charges.	Surplus.	Proportion of surplus to gross revenue.
1897-98.	RS.	RS.	RS.	PER CENTUM.
Northern Circle	5,99,670	4,68,026	+ 1,31,644	22
Central ,, ...	8,88,334	5,56,487	+ 3,32,347	37
Southern ,, ...	6,62,610	5,63,976	+ 98,634	15
Total ..	21,51,114	15,88,489	+ 5,62,625	26
1898-99.				
Northern Circle.	6,14,046	4,58,275	+ 1,55,771	25
Central ,, ...	8,73,772	5,29,935	+ 3,43,837	39
Southern ,, ...	5,87,436	6,03,939	− 16,503	A decrease of 2 per cent.
Total ..	* 20,75,254	15,92,149	+ 4,83,105	23
Increase or decrease in 1898-99.				
Northern Circle	+ 14,376	− 9,751	+ 24,127	..
Central ,, ...	− 15,062	− 26,552	+ 11,490	..
Southern ,, ...	− 75,174	+ 39,963	− 1,15,137	..
Total ..	− 75,860	+ 3,660	− 79,520	..

* Taken from the Board's report.

20. The outstanding balance at the beginning of the year was Rs. 3,13,749. Adding Rs. 20,37,914 the value of sales during the year, the total revenue for collection was Rs. 23,51,663. Of this sum, Rs. 20,75,343 † was collected, Rs. 7,583 was written off, and there remained a balance at the end of the year of Rs. 2,68,737.

Under expenditure there was a slight decrease of Rs. 1,409 under *Conservancy and Works*, which was more than counterbalanced by an increase of Rs. 5,069 under *Establishments*, due to augmentation of the subordinate staff under the sanctioned re-organization scheme.

21. The net result of the year was a surplus of 4·83 lakhs of rupees being 23 per cent. of the total collections.

† Taken from statement No. 61, appended to the report.

GENERAL.

22. The Government is glad to see from paragraph 49 of the report that efforts are being made in every direction to meet the convenience and wants of the people as regards forest produce. In particular, the measures taken in Salem to supply agricultural implements from every fuel depot seem worthy of imitation in other districts. The rules framed under the Act appear generally to have worked with success. The Government would like to see special notice taken in the report of the working of the rules which are in force in private estates. The rules sanctioned for Sáptúr are said to be unsuitable; and at the close of the year those in force in Jeypore were cancelled.

23. All superior officers have worked well and zealously. Under orders of the Board, conferences between the Revenue Divisional officers and the Forest officers at the jamabandi or annual revenue settlement to hear and settle the ryots' grievances were held in most districts, and should prove most helpful in district administration.

24. The conduct of the subordinate executive was on the whole satisfactory; but there is still much room for improvement in the case of the protective staff whose conduct is the subject of frequent complaint. The Board should consider whether the controlling officers of the department should not be instructed to apply severer disciplinary measures: for now that the status and prospects of these establishments have been improved, there is less excuse for misconduct, and there should be no hesitation in ridding the department of unworthy subordinates.

25. *Conclusion.*—The marked progress in forest settlement work, the extension of departmental operations to meet the demand for railway sleepers and the increased attention paid to the compilation of working plans have been salient and satisfactory features of the year's work.

(True Extract.)

(Signed) G. S. FORBES,
Secretary to Government.

ANNUAL ADMINISTRATION REPORT

OF THE

FOREST DEPARTMENT

OF THE

MADRAS PRESIDENCY

FOR THE

TWELVE MONTHS ENDING 30TH JUNE 1900.

(1899-1900.)

MADRAS:
PRINTED BY THE SUPERINTENDENT, GOVERNMENT PRESS.

1900.

TABLE OF CONTENTS.

CHAPTER I.—EXTENSION AND CONSTITUTION OF STATE FORESTS.

	PARA.	PAGE
i. Alteration of Area—		
Areas—		
Changes during the 12 months.	1	1 & 2
District Areas and Forest Reserves	2	2 & 3
Reserved Forests—		
Area constituted during the 12 months	3	4
ii. Forest Settlements—		
Progress in Settlements ..	4–7	4–7
Outturn of Work by Special Forest Settlement-officers ..	8	7 & 8
Outturn of other Settlement-officers (Divisional-officers) ..	9	8
Selections for further Reservation and Estimate of Area to be eventually declared Reserved Forests	10	8 & 9
Reserved Lands not brought under Settlement	11	9
Survey of proposed Reserves ..	12	9 & 10
Demarcation of proposed Reserves	13	10 & 11
iii. Demarcation—		
Lengths demarcated and cost of permanent demarcation ..	14	11–15
iv. Surveys—		
Operations of the Survey of India Party	15	15
Departmental Surveys Employment of Draughtsmen and the mapping of Reserved Forests.	16 & 17	15 & 16

CHAPTER II.—MANAGEMENT OF STATE FORESTS.

1. Regulation of Management—		
Working Plans and their control.	18	16–18
Annual Plans of Operations ..	19	19
2. Working of the year—		
(a) Communications and Buildings—		
General	20	19 & 20
Expenditure on Roads ..		
Do. on Buildings.		
Tramways	21	20 & 21
(b) Protection of Forests from Injury—		
General Protection and Breaches of Forest Law and rewards to informers and subordinates of the Forest and Abkári Departments	22–24	21–30
Protection from Fire ..	25–27	31 & 32
Regulation of Grazing and Protection from Cattle ..	28 & 29	32–35
(c) Improvement of Forest growth—		
Natural Reproduction ..	30	35 & 36
Artificial Reproduction, Plantations and Cultural Operations	31	36–38
Early Thinnings, other Operations for the improvement of the Growing Stock	32	38
Experiments	33	38 & 39
(d) Exploitation of Major Forest Produce—		
Clear or Regeneration Fellings	34	39
Selection Fellings ..	35	39 & 40
Improvement, Coppice, &c., Fellings ..	36	40 & 41
Unregulated Fellings ..	37	41
(e) Extraction and Transport of Major Forest Produce ..	38	41
(f) Exploitation of Minor Forest Produce—		
Extraction of Fodder ..	39	42
Grazing	40	42 & 43
Miscellaneous Produce ..	41	43

CHAPTER III.—GROSS YIELD AND OUTTURN OF FOREST PRODUCE.

Yield—		
General	42	44
Departmental Operations ..	43	44–46
Removals by purchasers ..	44	47 & 48
Comparative Cost of Departmental and Private Working ..	45	48 & 49
Confiscated Produce	46	49
Free grants of Forest Produce ..	47	49 & 50

CHAPTER IV.—FINANCIAL RESULTS.

Revenue and Expenditure	48	50–52

CHAPTER V.—FOREST ADMINISTRATION.

	PAGE	PARA.
Important Administrative Changes—		
Realization of Revenue from the Usufruct of Toddy-yielding Trees on Government Waste and Poramboke Lands	49	52
Measures adopted to encourage the growth of manure leaf yielding trees and shrubs	50	52 & 53
Supply of Forest Produce to meet the wants of the people ..	51	53
Rules under the Forest Act ..	52	
Working of the Rules under Section 26 of the Forest Act ..	53	
Coffee Cultivation in Reserved Forests	54	53 & 54
Tours of Forest Member ..	55	54
Conservators' Inspections ..	56	
Touring of District Forest officers.	57	

	PARA.	PAGE
Inspection of Range offices by District Forest-officers ..	58	54
Audit of the Accounts of the District Forest offices	59	
Forest School	60	
Conference of District Forest and Divisional officers during jamabandi	61	55
Conduct and Work of the Establishment	62	
Health of the Establishment ..	63	
Service Books	64	
Inventory of Valuable Stock ..	65	
Elephants	66	56
Rain-gauges	67	
The Iron Industry in the Salem District	68	
Mica	69	
Work done by Superior officers ..	70	

APPENDICES.

	PAGE
Area of Reserved Forests and Reserved Lands (No. 44)	i–xi
Progress made in, and expenditure incurred on, Forest Settlements (No. 45) ..	xii–xxvii
Appendix A—Forest Settlement	xxviii–xxx
Do. B—Causes of delay in the submission of final Notifications of Forest Reserves	xxxi
Do. C—Reserved Lands not under Settlement in square miles	xxxii
Do. Demarcation and maintenance of boundaries (No. 46)	xxxiii
Forest Areas Surveyed and under Survey (No. 47)	xxxiv & xxxv
Appendix D—Abstract of District Reports in regard to the maintenance of Maps..	xxxvi & xxxvii
Do. E—Statement showing the area of Forest Reserves for which final Maps have been prepared	xxxviii
Progress made in Working Plans (No. 48)	xxxix
Communication and Buildings (No. 49)	xl–xlvii
Statement showing the results of Transport of Wood by Tramways compared with the Transport by Carts (No. 65)	xlviii–xlix
Register of Breaches of Forest Rules (No. 50)	l–lvi
Area of Forest Tracts protected from Fire (No. 51)	lvii–lxx
Areas open and closed to grazing (No. 52)	lxxi
Statement of grazing in Reserved Forest and Reserved lands (No. 53)	lxxii–lxxv
Area of plantations cultural operations and Topes (No. 54)	lxxvi & lxxvii
Statement showing the Outturn of Timber and Firewood and Agency of Exploitation (No. 55)	lxxviii–xci
Outturn of Minor Forest Produce (No. 56)	xcii
Account of Timber, &c., in Depots and sold locally (No. 57)	xciii & xciv
Timber and other Produce cut and collected and removed by Consumers (No. 72 A, Old Code)	xcv
Timber and other Produce confiscated and sold (No. 72 B, Old Code)	xcvi
Abstract showing the value of Timber and other Produce at Depots (No. 58) ..	xcvii–xcix
Summary of Revenue and Expenditure (No. 59)	c–civ
Abstract of the above prepared in the Board's office	cv & cvi
Outstandings and Liabilities on account of Contractors and Disbursers (No. 60) ..	cvii
Do. on account of Revenue (No. 61)	cviii
Statement of Financial results (No. 62)	cix
Abstract showing the value of Live-stock, Stores, Tools and Plant (No. 64) ..	cx–cxiii
Return of Elephants (No. 63)	cxiv & cxv

PROGRESS REPORT

OF

FOREST ADMINISTRATION IN THE MADRAS PRESIDENCY

FOR THE TWELVE MONTHS ENDING WITH 30TH JUNE 1900.

CHAPTER I.—EXTENSION AND CONSTITUTION OF STATE FORESTS.

(i) *Alteration of the area.*

The area of reserved forests and reserved lands under the control of the department at the commencement and at the end of the year under report, and the changes that have taken place during the year in the three circles and in the Presidency as a whole, are abstracted in the subjoined statement. Details of the alterations in each district are given in Form No. 44:—

ABSTRACT A.—Classes and area of forests.

	Area on 1st July 1899.	Added during the year.	Excluded during the year.	Net increase or decrease.	Area on 30th June 1900.
Northern Circle.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.
Reserved forests	5,151	(a) 11 (b) 400	(a) 1	+ 410	5,561
Do. lands	1,859	(a) 12 (d) 16	(a) 2 (c) 29 (e) 39 (f) 400	— 442	1,417
Total ..	7,010	439	471	— 32	6,978
Central Circle.					
Reserved forests	6,042	(a) 2 (b) 248	(a) 3 (c) 1	+ 246	6,288
Do. lands	1,043	(a) .. (d) 105	(a) 25 (c) 7 (e) 4 (f) 248	— 179	864
Total ..	7,085	355	288	+ 67	7,152
Southern Circle.					
Reserved forests	3,695	(a) .. (b) 322	(a) .. (c) 4	+ 318	4,013
Do. lands	1,804	(a) 26 (d) 16	(a) .. (c) 12 (e) 6 (f) 322	— 298	1,506
Total ..	5,499	364	344	+ 20	5,519
Total.					
Reserved forests	14,888	(a) 13 (b) 970	(a) 4 (c) 5	+ 974	15,862
Do. lands	4,706	(a) 38 (d) 137	(a) 27 (c) 48 (e) 49 (f) 970	— 919	3,787
Grand Total ..	19,594	1,158	1,103	+ 55	19,649

(a) Rectification of area. (b) Transferred from reserved lands. (c) Disafforested or unreserved.
(d) Newly-constituted reserved lands. (e) Excluded at settlement. (f) Transferred to reserved forests.

There was a net addition of only 55 square miles to the area under the control of the department, against an increase of 341 square miles in 1898–99. The comparatively small increase during the year is to be attributed to the fact that the area available is more or less limited, selection and reservation in several districts having practically been completed. One hundred and thirty-seven square miles were newly-constituted reserved lands, while the increase due to rectification by more correct computation of areas under reserved forests and reserved lands was 9 and 11 square miles respectively. Besides the 5 square miles of reserved forests disafforested after obtaining the sanction of the Government of India, 97 square miles were cut off at settlement or removed from the category of reserved land to make provision for extension of cultivation and for the exercise of communal privileges. Taking the districts individually, the largest addition to the area of reserved lands was in *Nellore*, where 49 square miles were newly notified under section 4 of the Forest Act. *Salem* ranked next with 33 square miles, followed by *Cuddapah* and *North Coimbatore* with 23 and 13 square miles respectively. No decision has as yet been arrived at as regards the complaints of over-reservation in the Pattikonda and Rámallakóta taluks of the *Kurnool* district alluded to in the report for the previous year and the Collector has been asked to expedite the special report called for from him. It is, however, observed that 7 square miles of the area notified in previous years were again made unreserved land by the Collector during the year. The Board has again to note that the report from *Salem* contains no information as to whether the survey of the enclosures erroneously included in the area of reserves mapped by the Survey of India Party has been completed. The Collector has been asked to report on the point. The additions to the area of reserved forests are noticed in paragraph 3 *infra*.

2. The forest area of each district and the percentage which it bears to the district area and to unoccupied lands are presented in the following statement. The variations, as compared with the figures of the previous year, are small and need no remarks. The decrease of 213 square miles in the area of Government lands (column 3) is, however, noticeable and is due to the causes explained at the foot of the statement.

Abstract B.—District areas and Forest reserves.

District.	Total district area excluding feudatory and tributary states.	Area excluding zamindari and inam villages.	Occupied area.	Particulars of remaining area (column 3 — column 4).			Reserved forests and reserved lands.			Percentage of column 10 to column 3.	Percentage of column 10 to column 7.
				Unoccupied, culturable, uncultivable and forest areas.	Areas for which returns are not available.	Total of columns 5 and 6.	Reserved forests under Act V of 1882.	Reserved lands.	Total of reserves, columns 8 and 9.		
1	2	3	4	5	6	7	8	9	10	11	12
Northern Circle.	SQ. MLS.	SQ. MLS.	SQ. MLS	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.		
Ganjám	8,369	4,437	614	1,139	2,684	3,823	488	51	539	12·14	14·09
Vizagapatam	17,242	1,378	266	(*b*) 512	(*b*) 600	1,112	221	133	354	25·68	31·83
Gódávari	7,857	(*a*) 3,977	1,564	2,413	..	2,413	944	7	951	23 91	39·41
Kistna	8,498	5,615	3,281	2,233	101	2,334	803	325	1,128	20 08	48·32
Kurnool	7,514	(*c*) 6,776	2,047	(*c*) 4,729	..	4,729	2,075	806	2,881	42·51	60 92
Bellary	(*d*) 5,696	(*d*) 4,639	2,707	1,932	..	1,932	523	92	615	15·25	31·83
Anantapur	(*e*) 5,564	4,715	2,025	2,651	39	2,690	7	3	510	10·81	18·96
Total ..	60,740	31,537	12,504	15,609	3,424	19,033	5,501	1,417	6,978	22·12	36 66
Central Circle.											
Cuddapah	8,723	(*a*) 7,567	2,122	5,445	.	5,445	2,028	423	2,451	32·39	45·01
Nellore	8,765	4,073	1,779	2,282	12	2,294	667	88	755	18·53	32·91
Chingleput	3,092	2,050	1,034	1,007	9	1,016	210	4	214	10·43	21·06
North Arcot	7,365	3,909	1,359	2,544	6	2,550	1,183	51	1,234	31·56	48·39
South Arcot	(*g*) 5,216	4,747	2,425	2,249	73	2,322	685	24	709	14·93	30·53
Salem	7,529	5,391	2,162	3,229	..	3,229	1,257	196	1,453	26·95	44·99
Trichinopoly	3,631	2,685	1,661	1,010	14	1,024	240	78	318	11·84	31·05
Tanjore	3,706	2,487	1,783	689	15	704	18	..	18	0·72	2·55
Total ..	48,027	32,909	14,325	18,455	129	18,584	6,288	864	7,152	21·73	38·48
Southern Circle.											
South Canara	3,902	3,883	708	3,175	..	3,175	497	596	1,093	28·14	34·42
Malabar	5,593	(*a*) 5,565	1,611	3,954	..	3,954	349	251	600	10·78	15·17
The Nilgiris	957	(*a*) 957	307	650	..	650	389	100	489	51 09	75·23
Coimbatore	7,860	(*h*) 7,176	3,875	(*h*) 3,301	..	3,301	1,763	534	2,297	32·00	69·58
Madura	8,813	(*a*) 3,245	1,690	1,555	..	1,555	597	14	611	18·82	39·29
Tinnevelly	5,389	3,567	2,298	1,263	6	1,269	418	11	429	12·02	33·80
Total ..	32,514	24,393	10,489	13,898	6	13,904	4,013	1,506	5,519	22·62	39·69
Grand Total ..	141,281	88,839	37,318	47,962	3,559	51,521	15,862	3,787	19,649	22·11	38·18

N.B.—The figures in columns 1 to 7 were furnished by the Settlement Department of the Board of Revenue.

(*a*) Area by village papers has been adopted, as it is in excess of the survey area.
(*b*) The large decrease in the one and corresponding increase in the other is due to abandonment of forest area in Agency tracts.
(*c*) The decrease is reported to be due to correction of errors.
(*d*) The difference is said to be due to adoption of areas from the fresh lists of survey area furnished by the Superintendent of Revenue Survey.
(*e*) The difference is due to the introduction of survey areas into the district.
(*g*) The decreases are due to the transfer of the area of certain hill villages hitherto shown under ryotwari to their proper head, viz., Zemindari.
(*h*) The decrease is due to the exclusion of certain unsurveyed areas.

3. The subjoined statement shows the area of finally constituted reserved forests in each district during and up to the end of the year.

ABSTRACT C.

Districts.	Prior to 1898–99.	During 1898–99.	During 1899–1900.	Total.
Northern Circle.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.
Ganjám	245	176 (a) — 6	73	488
Vizagapatam	137	5	79	221
Gódávari	844	22	78	944
Kistna	706	41 (a) + 1	55	803
Kurnool	1,962	42	71	2,075
Bellary	458	12 (a) + 6	37 (a) + 10	523
Anantapur	450	50	7	507
Total ..	4,802	349	410	5,561
Central Circle.				
Cuddapah	1,651	204	173	2,028
Nellore	554	98	15	667
Chingleput	201	9	..	210
North Arcot	1,047	24 (a) + 98	15 (a) — 1	1,183
South Arcot	676	9	..	685
Salem	1,226	11	21 (b) — 1	1,257
Trichinopoly	192	24	24	240
Tanjore	18	..	..	18
Total ..	5,565	477	248 (a) — 1 (b) — 1	6,288
Southern Circle.				
South Canara	166	118	213	497
North Malabar	157	2	..	159
South Malabar	40	150	..	190
The Nilgiris	358	1 (b) — 1	31	389
North Coimbatore	1,054	7	49 (b) — 4	1,106
South Coimbatore	654	..	3	657
Madura	567	5	25	597
Tinnevelly	412	5	1	418
Total ..	3,408	287	322 (b) — 4	4,013
Grand Total ..	13,775	1,113	974	15,862

(a) Rectification of area. (b) Declared unreserved.

There was a net addition of 974 square miles against 1,113 square miles in the preceding year. The outturn was largest (213 square miles) in *South Canara*. In *Cuddapah*, which came next, 173 square miles were notified. *Vizagapatam*, *Gódávari*, *Ganjám* and *Kurnool* ranked next with 79, 78, 73 and 71 square miles respectively. There were also noticeable additions in *Kistna*, *North Coimbatore*, *Bellary*, *the Nilgiris* and *Madura*. Notifications under section 16 of the Forest Act in respect of thirty-four blocks containing 114 square miles were published during the year, which, however, took effect only after its close.

(ii) *Forest Settlements.*

4. The progress of forest settlement in the three circles and in the whole Presidency is exhibited in the subjoined abstract and the statement in appendix A shows, by districts, the total area brought under settlement up to the end of the year, the area constituted reserved forests, and the particulars of balance under settlement on 30th June 1900.

ABSTRACT D.

Circle.	Area of reserved lands—*vide* abstract A ab			Area brought under Chapter II of the Madras Forest Act.						
	On 1st July 1899.	Added during 1899–1900.	Total.	Excluded during the year mainly by reason of constitution as reserved forests.	Balance at the end of the year.	Area notified under section 4 not constituted as reserved forests on 1st July 1899.	Added during 1899–1900	Total.	Constituted reserved forests during 1899–1900, or otherwise disposed of.	Balance notified under section 4 but not constituted reserved forests on 1st July 1900.
	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.
Northern Circle	1,859	28	1,887	470	1,417	986	(a) + 74 3	1,063	400 (b) 5 (c) 39	619
Central „	1,043	105	1,148	284	864	910	(a) — 148 15	1,045	248 (b) 3 (c) 4	788
Southern „	1,804	42	1,846	340	1,506	1,252	(a) + 21 26	1,299	322 (b) 18 (c) 6	953
Total ..	4,706	175	4,881	1,094	3,787	3,148	(a) +243 14	3,405	970 (b) 26 (c) 49	2,360

(*a*) Rectification. (*b*) Initial notifications cancelled. (*c*) Excluded at settlement.

The progress during the year in the whole Presidency is compared with that of the previous year in the following statement: the area notified under section 4 in each district is shown in appendix C:—

	1898-99.		1899–1900.	
	Number of blocks.	Area.	Number of blocks.	Area.
		SQ. MLS.		SQ. MLS.
(1) Area notified as proposed reserves under section 4 and remaining to be constituted reserved forests at the beginning of the year.	482	3,816	431	3,148 (a)+ 14
(2) Notified under section 4 during the year	167	493	141	243
Total ..	649	4,309	572	3,405
(3) Deduct area finally constituted as reserved forests under section 16, or excluded at settlement, or the initial notifications of which were cancelled, &c.	206 (b) 12	1,015 (b) 75 (c) 71	192 (b) 21	970 (b) 26 (c) 49
Total of (3) ..	218	1,161	213	1,045
(4) Area which remained to be finally constituted at the end of the year	431	3,148	359	2,360

(*a*) Rectification of area.
(*b*) Initial notifications cancelled; includes the Nilambúr leased forests (12 blocks of 18 square miles), the notifications of which were cancelled at the close of the previous year and not included in that year's return.
(*c*) Excluded at settlement.

5. Four hundred and thirty-one blocks of an aggregate extent of 3,162 square miles remained to be finally constituted reserved forests at the beginning of the year, and 141 blocks amounting to 243 square miles were added during the period against 167 blocks amounting to 493 square miles in the preceding year. The decrease is, as has already been noted, due to the limited area available for further reservation. One hundred and ninety-two blocks amounting to 970 square miles were gazetted as reserved forests during the year against 206 blocks amounting to 1,015 square miles in the previous year. The slight fall in the number and area does not call for remarks. It should, however, be remembered that the number and area of blocks notified are not a fair criterion of the work turned out, more particularly when the settlement deals with smaller areas adjoining cultivated tracts, because more attention has to be paid to these than to larger hill blocks to ensure adequate provision for extension of cultivation, &c. Three hundred and fifty-nine blocks amounting to 2,360 square miles remained to be finally constituted reserved forests at the close of the year against 431

blocks amounting to 3,162 square miles in the previous year, the decrease being due to some extent to the decrease in the number and area of blocks initially notified. The particulars of the balance of area under settlement are shown below:—

	1898-99.		1899-1900.	
	Number of blocks.	Area.	Number of blocks.	Area.
		SQ. MLS.		SQ. MLS.
(1) Notified under section 16 but not constituted reserved forests during the year	21	118	34	114
(2) With Board or Government awaiting publication of notification under section 16	49	495	46	441
(3) Returned by the Board for revision and remaining either with Collector, District Forest-officer or Forest Settlement-officer.	22	460	26	505
Total settled and reported on ..	92	1,073	106	1,060
(4) Settled but not reported on	57	221	38	217
(5) Settlement proceeding	282	1,854	215	1,083
Total of (4) and (5) ..	339	2,075	253	1,300
Totals of (1), (2), (3), (4) and (5) ..	431	3,148	359	2,360

Of the 38 blocks comprising 217 square miles shown above as "settled but not reported on", 5 were awaiting preparation of maps, 11 were awaiting disposal of appeals, 12 were awaiting expiry of time prescribed for appeals, 4 were awaiting payment of compensation or exchange of lands, 6 were awaiting submission of final reports by Forest Settlement-officers or pending for other causes.

Two hundred and fifteen blocks were pending with Forest Settlement-officers, District Forest-officers and Collectors in various stages of settlement and the causes of their pendency are shown in appendix B.

6. The following statement compares the results of the settlement operations of the year under report with those of the previous two years:—

Year.	Finally notified during the year.		Settled and reported on.		Settled but not reported on.		Total.	
	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.
1	2	3	4	5	6	7	8	9
		SQ. MLS.		SQ. MLS.		SQ. MLS.		SQ. MLS.
Ending with June 1898 ..	132	652	139	1,302	69	619	340	2,573
Do. 1899 ..	206	1,015	92	1,073	57	221	355	2,309
Do. 1900 ..	192	970	106	1,060	38	217	336	2,247

It will be seen from columns 8 and 9 that the year's operations fell slightly short of those of the two years immediately preceding.

7. One satisfactory feature of the year was that material progress was made in the disposal of the old blocks of many years' standing chiefly in *Ganjám*, *Gódávari*, *Cuddapah* and *Madura*. In the first-mentioned district, the settlement records of one block (Kriyamba) of more than 14 years' standing were received after the close of the year and have since been returned to the Collector for revision. As regards the Bainamari block also pending settlement for the same period, the Forest Settlement-officer's decision on a claim put in by the Zamindar of Chikati, which was adverse to the claimant, was appealed against, and the District Judge remanded the case to the Forest Settlement-officer for revision with directions to accept certain documentary evidence originally rejected by him. The Forest Settlement-officer adhered to his decision but the District Judge reversed it on appeal. No second appeal was advised on behalf of the Forest Department and the final notification has since been received in the Board's office and is pending scrutiny. In *Vizagapatam*, the settlement records of the Barnaconda block were returned to the Forest Settlement-officer for revision during the year and are now pending with that officer. An award for Rs. 8,000 was made during the year by the Forest settlement-officer under the Land Acquisition Act in respect of that portion of the Kadagandi reserve which was decreed by the

District Court in favour of the Honourable the Raja of Bobbili. An application was, however, subsequently made by the Raja to place the lands under the management of Government and the settlement records are therefore delayed pending the completion of the negotiations. The Peria and Padri blocks in *North Malabar* and the Attipadi valley blocks in *South Malabar*, which were pending scrutiny in the Board's office at the close of the year, have since been notified. In *North Coimbatore*, the renotification of the Yedaralli block alluded to in the report for the previous year was published in December 1899 and the time allowed for the presentation of claims expired only on the 31st August last. The survey of the Madeswaramalai block was completed during the year and its renotification is delayed pending the receipt of the map from the Survey of India Party. These blocks have not yet been thoroughly perambulated but the Board trusts that the Forest Settlement-officer will be able to submit the final report of the Yedaralli block within the current year. The progress in all the other districts except *South Arcot* was good and was commensurate with the work on hand.

8. *Outturn of work by the Special Forest Settlement-officers.*—The following statement submitted by the Forest Settlement-officers shows the work done by them during the year under report:—

ABSTRACT E.

Names of Special Forest Settlement-officers.	Districts.	Issue of proclamation after notification under section 4.		Settlement of claims.		Report after settlement submitted.		Final notification proclaimed.		Cost.
		Number of blocks.	Area.	Number of blocks.	Area.	Number of blocks.	Area.	Number of blocks.	Area.	
1	2	3	4	5	6	7	8	9	10	11
			SQ. M.		SQ. M.		SQ. M.		SQ. M.	RS.
Mr. W. F. Bateman	Ganjám	3	7	12	58	8	50	5	66	2,519
	Vizagapatam	1	1	7	25	5	9	4	5	2,519
	Gódávari	2	2	3	6	3	6	6	56	2,519
	Kistna	13	39	14	32	6	14	5	13	2,519
	Kurnool	..	..	3	103	2	89	3	80	2,519
	Total	19	49	39	224	24	168	23	220	12,595
Mr. E. A. Smith	Kistna	3	10	12	43	16	38	17	49	3,415
	Kurnool	1	48	6	164	2	50	2	4	1,226
	Bellary	2	9	12	42	13	43	18	40	1,707
	Anantapur	5	3	2	1	..	..	..	..	847
	Nellore	13	38	18	28	16	24	11	20	5,445
	Total	24	108	50	278	47	155	48	113	12,640
M.R.Ry. K. Ganapayya Garu.	Cuddapah	2	23	19	235	19	324	15	203	3,869
	North Arcot	1	..	15	25	27	23	43	2	2,695
	South Arcot	..	..	1	..	1	..	..	..	..
	Salem	8	77	7	59	5	46	5	22	4,660
	Chingleput	..	..	2	2	3	3	1	..	350
	Total	11	100	44	321	55	396	64	227	11,574
Mr. F. V. P. Gompertz	Trichinopoly	..	..	16	33	14	27	21	28	2,419
	Madura	..	..	2	13	3	14	4	26	2,419
	Coimbatore	5	225	..	..	..	..	3	53	2,419
	Tinnevelly	..	..	4	6	2	3	2	1	2,419
	The Nilgiris	71	2	29	10	41	8	17	4	2,419
	Total	76	227	51	62	60	52	47	112	12,095
Mr. H. S. Mullins	Malabar	..	..	..	..	5	202			6,150
	South Canara	1	4	20	189	15	130	16	216	6,150
	Total	1	4	20	189	20	332	16	216	12,300
	Grand Total	131	488	204	1,074	206	1,103	198	888	61,204
	In 1898-99 ..	149	527	219	1,268	197	1,036	189	979	54,230
	In 1897-98 ..	115	438	233	1,159	148	680	126	740	59,654

All the five Forest Settlement-officers worked throughout the year with the exception of M.R.Ry. K. Ganapayya Garu who was absent on privilege leave for one month in continuation of the Easter holidays. As will be seen from the above statement, the outturn of Messrs. Bateman and Mullins was less than in the previous year; the decrease is ascribed by the officers to the fewer number of blocks available for settlement in the districts under their charge. Additional work was, however, provided for Mr. Bateman during the last quarter of the year. Mr. Mullins has since been temporarily deputed by Government to survey and demarcate the Mysore-South Canara boundary and this work is expected to carry him on till 15th December next when sufficient settlement work is expected to be ready for him. Messrs. Bateman and Gompertz have since been reverted to the Survey Department and the work in the districts under the charge of the former has been temporarily distributed to Messrs. Smith and Ganapayya Garu. The work of the several officers was, as usual, regularly scrutinized in quarterly reviews and the Board had no occasion to find fault with the general outturn of work.

9. *Outturn of work by Revenue Divisional-officers.*—The "Andiparai" or "Mary estate" of 303 acres in the *South Coimbatore* district which was purchased by Government for arrears of revenue in 1889, was notified under section 4 during the year in the name of the Head Assistant Collector of Coimbatore.

10. *Selections for further reservation.*—The preliminary demarcation and survey of the long-pending selections in the Pondokhol Mitta in *Ganjám* are still far from complete and some of the blocks selected in the Berhampur range await inspection by the District Forest-officer. Little progress was made in *Vizagapatam* and much time was lost in the resurvey of the Falkonda and Saragudu selected blocks necessitated by the incompetence of the surveyor first engaged for the purpose. In *Gódávari*, a special surveyor has been deputed by Government to make an accurate survey of the coast line near Coringa and the selections referred to in the report for the previous year will be taken in hand on the publication of the map. Fresh selections were made in the Koilkuntla taluk of the *Kurnool* district, but as the ryots have objected to the reservation the Head Assistant Collector has been deputed to enquire into the matter. Pending the results of the enquiry the notification of the selections has been postponed. In *Nellore*, 49 square miles were selected and notified under section 4 during the year and the Collector reports that the area which still remains to be selected is almost *nil*. The sanctioned forecast of reservation in the district, viz., 1,132 square miles, appears therefore to have been over-estimated. Selection work in *South Canara* was not as fast as could be desired, and the delay was due to the same causes as those noted in the report for the previous year, viz., the settlement of the *khan* and *bane* question and the completion of the revenue settlement. Some progress was made in *North Coimbatore* and only four blocks remained to be notified at the close of the year. Notifications under section 4 in respect of two blocks comprising about 12 square miles were submitted to the Board, but were, however, returned to the Collector for revision. With a view to straighten the boundaries of the existing reserves in the Upper Palnis in *Madura*, a few further selections of sholas were made and the notifications in respect of some of them have since been submitted to the Board. The following statement shows the latest estimate of reservation in each district:—

ABSTRACT F.

District.	Sanctioned estimate of areas for reservation.	Area brought under the Forest Act—*vide* column 14 of Form 44.	Additional estimated area selected or to be selected.	Total estimate proposed to be reserved.	Percentage of column 5 to the area of Government lands in the district.	Percentage of column 5 to the area of unoccupied Government lands in the district.
1	2	3	4	5	6	7
	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.		
Ganjám	656	539	30	569	12·82	14·88
Vizagapatam	415	354	..	354	25·68	31·83
Gódávari	997	951	46	997	25·06	41·31
Kistna	1,165	1,128	..	1,128	20·18	48·32
Kurnool	2,677	2,881	..	2,881	42·51	60·92
Bellary	575	(*d*) 615	22	637	13·73	32·97
Anantapur	535	510	..	510	10·81	18·95
Cuddapah	2,640	2,451	..	2,451	32·39	45·01
Nellore	1,132	755	..	755	18·53	32·91
Chingleput	231	214	..	214	10·43	21·06
North Arcot	(*a*) ..	1,234	3	1,237	31·64	48·50
South Arcot	835	709	..	709	14·93	30·53
Salem	1,594	1,453	141	1,594	29·56	49·36
Trichinopoly	(*a*) ..	318	1	319	11·88	31·15
Tanjore	23	18	..	18	0·72	2·55
South Canara	1,011	1,093	..	1,093	28·14	34·42
Malabar	(*b*) 273	600	4	604	10·83	15·29
The Nilgiris	(*c*) 411	489	..	489	51·09	75·23
Coimbatore	(*b*) ..	2,297	33	2,330	32·46	70·58
Madura	(*a*) ..	611	..	611	18·82	39·29
Tinnevelly	440	429	1	430	12·05	33·88

(*a*) No definite schemes were formulated and approved for the districts.
(*b*) Final schemes were submitted only for the Northern Division of the district.
(*c*) Excludes leased forests. (*d*) Includes leased forests 62 square miles.

11. *Reserved lands not brought under settlement.*—Appendix C shows the area of lands reserved under rule 5 of the rules under section 26 and not yet brought under settlement. The area to be notified is, as in the last year, largest in *Kurnool* and little progress was made during the year pending the decision of the question of over-reservation in Ramallakot and Pattikonda taluks. In *South Canara* out of the 396 square miles shown as pending at the close of the last year, only 5 square miles were transferred for settlement and 1 square mile abandoned. Notifications in respect of a few more blocks have since been received and the delay in notifying the other areas has been explained in the previous paragraph. The progress made in *Kistna* was good and seventeen blocks comprising 49 square miles were notified against eight blocks comprising 21 square miles in the previous year. Seven square miles were added by correction of areas and 10 square miles were again made unreserved lands by the Collector, leaving at the close of the year under review 188 square miles remaining to be notified under section 4. Of these, the demarcation or mapping of 123 square miles has yet to be done and the Board trusts that no pains will be spared by the District Forest-officer to push on this most important work and to show better results during the current year. The 89 square miles shown against *Vizagapatam* are reported to embrace a large tract of country only nominally placed under reservation and when the blocks are finally selected much of this area will be cut out. The progress made in

Salem was satisfactory. The sanctioned extent of reservation in the district is 1,594 square miles. Of this area, 1,453 square miles have been brought under the control of the department and it has not been reported whether the remaining extent of 141 square miles is still available for reservation. The Board has, however, included this extent in column 4 of abstract F. The areas in the *Nilgiris* and *Bellary* consist mostly of leased forests.

12. *Survey of proposed Reserves.*—The Survey of India Party completed in *North Coimbatore* the survey of the Madheswaramalai proposed reserve of 246 square miles. In *Ganjám* two surveyors were at work, one throughout the year and the other for a part of the year, and 158 miles were traversed by them. Excepting the survey of a portion of the Kadagandi block no fresh work was done during the year in *Vizagapatam*, as the work referred to in the report for the previous year had to be redone owing to the incompetence of the surveyor employed. Considerable difficulty was felt in obtaining surveyors capable of turning out satisfactory work. The work of the surveyors in *Kistna* and *Salem* consisted of 27 miles of boundary survey and 26 square miles of outline survey, respectively. In *Kurnool*, the unsurveyed fields in the Panem proposed reserve occupied the attention of the temporary surveyor. As usual, one of the two surveyors in *South Canara* worked under the Forest Settlement-officer in correcting plans and boundaries of blocks under settlement, while the other was engaged in final demarcation in the Coondapoor range in advance of the operations of the Survey of India Party.

13. *Demarcation of proposed reserves.*—The following statement exhibits the length and cost of boundary lines preliminarily demarcated during the past two years :—

PRELIMINARY demarcation work.

	During 1898-99.			During 1899-1900.		
	Miles.	Cost.	Average per mile.	Miles.	Cost.	Average per mile.
1	2	3	4	5	6	7
Northern Circle.		RS.	RS. A. P.		RS.	RS. A. P.
Ganjám	22	130	5 14 6	87	531	6 1 8
Vizagapatam	20	268	13 6 4	40	551	13 12 5
Gódávari	96	249	2 9 6	17	68	4 0 0
Kistna	84	362	4 4 11	78	302	3 13 11
				(*a*) 31	102	3 4 7
Kurnool	343	942	2 11 11	325	743	2 6 5
				(*b*) 17	78	
Bellary	75	348	4 10 2	102	254	2 7 10
Anantapur	..	..	..	..	..	..
Total, Northern Circle	640	2,299	3 9 5	697	2,629	3 12 4
Central Circle.						
Cuddapah	73	195	2 10 8	..	..	..
	(*a*) 5	..				
Nellore	149	458	3 1 2	129	(*c*) 360	2 12 8
Chingleput	..	..	..	..	..	..
North Arcot	..	..	..	..	..	..
South do	..	..	..	..	..	..
Salem	48	224	4 10 8	107	270	2 8 4
Trichinopoly	..	..	..	21	7	0 5 4
Tanjore	..	..	..	..	..	..
Total, Central Circle	275	877	3 3 0	257	637	2 7 7
Southern Circle.						
South Canara	424	188	0 7 1	169	418	2 7 7
	(*a*) 151	(*d*) 364	2 6 6	344	(*d*) 712	2 1 1
North Malabar	8	34	4 4 0	20	130	6 8 0
South do.	6	296	49 5 4	1	40	40 0 0
The Nilgiris	55	609	11 1 2	140	779	5 9 9
		(*a*) 27				
North Coimbatore	16	207	12 15 0	1	(*e*) 60	60 0 0
South do.	..	..	..	2	13	6 8 0
Madura	..	..	..	..	..	..
Tinnevelly	..	..	..	4	56	14 0 0
Total, Southern Circle	660	1,725	2 9 9	681	2,208	3 3 10
Grand Total, Presidency	1,575	4,901	3 1 9	1,635	5,474	3 5 7

(*a*) Repairs. (*b*) Rectification of boundaries. (*c*) Includes cost of erecting cairns.
(*d*) Amount spent in clearing boundary lines for Forest Settlement-officers' perambulation.
(*e*) Includes the cost of erection of cairns, clearing of prickly-pear and the cost of sign-boards.

No work was done in *Anantapur*, *Cuddapah*, *Chingleput*, *North Arcot*, *South Arcot*, *Tanjore* and *Madura*. In *Kistna* progress was not as fast as it could be desired, but the reasons adduced in the previous year's report for the slow progress still prevailed. In other districts the progress was commensurate with the work on hand.

The average cost per mile of demarcation was a little higher than that of the last year for the Presidency and for the *Northern* and *Southern* Circles, but decreased in the *Central* Circle. As regards the districts individually, the increase was unavoidable in *Ganjám* and *Vizayapatam* as work had to be done in Agency tracts and higher wages were paid. The marked rise in the rate in *Gódávari* was due to difficult ground in mangrove swamps. In *South Canara* a larger number of miles were re-cleared to guide the Forest Settlement-officer in his perambulation, and the average cost was less. Preliminary demarcation in the district consisted in previous years in the erection of temporary cairns and the cutting of numbers on the nearest trees, but during the year line-clearing was also done, and this fact explains the increase in the rate per mile for boundary lines freshly demarcated. With the change in the system the Board presumes that no further expenditure on the lines now cleared will be incurred at the time of the Forest Settlement-officer's perambulation. The rise in the rate in *North Malabar* has not been explained. In *North Coimbatore* only $1\frac{1}{2}$ miles were demarcated, but the cost was abnormal, as a thick growth of prickly-pear had to be cleared and a comparatively large number of permanent cairns had to be erected. The decrease in the other districts was more or less due to the thinness of the growth on the lines cleared.

(iii) *Demarcation.*

14. The system of demarcation was not altered during the year. The following statement compares the cost and length of boundary lines permanently demarcated and re-cleared during the year with those of the previous year. The work that remained to be done at the close of the year is shown in Form No. 46.

ABSTRACT G.—Demarcation Work done during 1899–1900.

District.	Permanent.						Re-clearing old lines.			
	During 1898-99.			During 1899-1900.			During 1898-99.		During 1899-1900.	
	Miles.	Cost.	Average cost per mile.	Miles.	Cost.	Average cost per mile.	Miles.	Cost.	Miles.	Cost.
1	2	3	4	5	6	7	8	9	10	11
Northern Circle.		Rs.	Rs. A. P.		Rs.	Rs. A. P.		Rs.		Rs.
Ganjám	130	(a) 1,400	10 12 3	150	(a) 1,372	9 2 4	59 + (c) 49	176	31	31
Vizagapatam	91	1,443	15 13 8	63	(a) 1,763	27 15 0	100	325 + (b) 792	Not stated.	(a) & (b) 774
Gódávari	55	572	10 6 4	124	(a) 2,009	16 3 2	(c) 286 + 109	(b) 508 + 115	200 + (c) 388	(a) & (b) 8,869
Kistna	90	(a) 1,424	15 13 1	139	(a) 2,758	19 13 5	30	229	89	(a) 537
Kurnool	60	1,370	22 13 4	107	1,888	17 10 4	10 + (c) 564	185 + (e) 1,178	..	(k) 2,027
Bellary	150	1,147	7 10 4	92	484	5 4 2	490	(a) & (b) 1,833	198	423
Anantapur	102	529	5 2 11	56	(a) 306	5 7 5	..	73	25	233
Total, Northern Circle	678	7,885	11 10 1	731	10,580	14 7 6	1,637	5,414	931	12,894
Central Circle.										
Cuddapah	(f) 193	1,349	6 15 8	h) 191	1,185	6 3 3	80	366	95	176
Nellore	28	(a) 275	9 13 1	250	(a) 1,924	7 11 2	9	76	..	(i) 418
Chingleput	34	(a) 849	24 15 2	26	236	9 1 2	..	(k) 117 + (b) 478	..	(d) 39 + (b) 468
North Arcot	(g) 62	656	10 9 3	(j) 49	528	10 12 5	(c) 1,765 + 12	146	(c) 1,914 + 11	97
South Arcot	277	3,678	13 4 5	90	(a) 1,930	21 7 1	3	17	..	..
Salem	43	243	5 10 5	70	195	2 12 6	(c) 486 + 391	522 + (i) 32	390 + (c) 621	167
Trichinopoly	..	..	..	15	97	6 7 6	(c) 118 + 11	85	(c) 296	..
Tanjore	..	..	..	..	..	..	..	1	..	..
Total, Central Circle	637	7,050	11 1 0	691	6,095	8 13 1	2,875	1,840	3,327	1,365

(a) Includes cost of erecting cairns.
(b) Cost of temporary establishment.
(c) Cleared by the Forest establishment free of cost.
(d) Includes cost of sign-boards, &c.
(e) Amount spent in cutting 48 miles of block lines in the interior of reserves.
(f) Includes rectifying 42 miles of demarcation.
(g) Includes rectifying 41 miles of demarcation.
(h) Includes 9 miles of boundary rectified.
(i) Added as per Accountant-General's audited figures.
(j) Includes rectifying 25 miles of demarcation.
(k) Includes amount spent for cutting compartment and coupe lines

Abstract G.—Demarcation Work done during 1899-1900—*cont.*

District.	Permanent.						Re-clearing old lines.			
	During 1898-99.			During 1899-1900.			During 1898-99.		During 1899-1900.	
	Miles.	Cost.	Average cost per mile.	Miles.	Cost.	Average cost per mile.	Miles.	Cost.	Miles.	Cost.
1	2	3	4	5	6	7	8	9	10	11
Southern Circle.		Rs.	Rs. A. P.		Rs.	Rs. A. P.		Rs.		Rs.
South Canara	136	1,348	9 14 7	353	4,487	12 11 5	1	20 (*b*) 35	20	200
North Malabar	..	..	..	17	214	12 9 4	134	1,368 (*b*) 66	..	(*b*) 36
South Malabar	..	..	..	..	..	..	20	200	..	..
The Nilgiris	11	134	12 2 10	..	..	..	90	1,460 (*b*) 145	100	(*a*) 1,865
North Coimbatore	68	854	12 8 5	34	556	16 5 7	111	446	225	(*a*) 1,011
South Coimbatore	6	50	8 5 4	6	106	17 10 8	9	70 (*c*) 196	(*c*) 3	(*b*) 14
Madura	25	(*a*) 875	35 0 0	..	..	..	40	(*d*) 866	37 (*c*) 487	(*a*) 1,058
Tinnevelly	12	(*a*) 194	16 2 8	19 (*f*) 8	113 20	5 15 2 2 8 0	4	23	4	73
Total, Southern Circle ..	258	3,455	13 6 3	437	5,496	12 9 3	409	4,885	876	4,257
Grand Total, Presidency ..	1,573	18,390	11 11 0	1,859	22,171	11 14 9	1,718 (*c*) + 3,268	12,139	1,425 (*c*) + 3,709	18,516

(*a*) Includes cost of erecting and repairing cairns, &c.
(*b*) Added as per Accountant-General's audited figures.
(*c*) Cleared by the Forest establishment free of cost.
(*d*) Includes cost of sign-boards, &c.
(*e*) Amount spent for cutting compartment and coupe lines.
(*f*) Private forest adjoining reserved forests.

The total length of lines demarcated was larger than the outturn of the previous year by 286 miles. In *Vizagapatam*, *South Arcot*, *Salem*, *Trichinopoly* and *Malabar* the outturn was small, but in all the other districts the progress made was good. The work in *Kurnool* included as in the previous year the clearing of the taluk boundaries, and with the 24 miles cut at a cost of Rs. 894 during the year this work is reported to be complete. In the districts in which the outturn was poor, as also in *Gódávari*, *Ganjám* and *Kurnool*, the length of lines remaining to be permanently demarcated is still very large, and the Board trusts that the returns for the current year will show better results. In *Anantapur*, *Chingleput*, *North Arcot*, *Tanjore*, *South Canara* and *North Coimbatore* the demarcation of all the blocks finally notified up to the end of the year was completed and nearly so in *South Coimbatore*, *The Nilgiris*, *Madura*, *Kistna*, *Cuddapah* and *Bellary*.

There was only a slight increase for the Presidency in the cost per mile of demarcation. The rate fell in the Central Circle from Rs. 11-1-0 per mile in the previous year to Rs. 8-13-1 during the year under review and is satisfactory; but this decrease was more than compensated by the increase in the Northern Circle, where the cost rose from Rs. 11-10-1 to Rs. 14-7-6 per mile. Taking the districts individually, in *Ganjám* the demarcation of 10 miles of Maliah boundary at Rs. 23 per mile done during the year considerably enhanced the cost, which would otherwise have been less than that shown in the statement. There was a remarkable rise of 75 per cent. in the rate paid in *Vizagapatam* and no satisfactory explanation has been offered by the Collector for the increase. Difficult ground and scarcity of labour accounted for the increased rate in *Gódávari* and a good deal of trouble was taken in clearing the cut lines of all stumps and roots. The Collector is of opinion that if at all the work is to be done efficiently the present rate is much too low. The higher rate in *Kistna* is ascribed to the introduction in most cases of stone slabs in lieu of cairns and to the removal of stones, roots and stumps for the purpose of rendering the boundaries suitable for riding and for carts to pass wherever the ground is not too steep. No demarcation watchers were entertained in *Bellary*, and in addition the rates were curtailed. This explains the lower rate in the district; while it was due in *Chingleput* to the very small number (32) of stone slabs used during the year against 421 in the previous year. The higher rate in *South Arcot* has not been explained. Work had to be done over more difficult ground in *South Canara* and labour was scarce. As a consequence the rate of cost was higher. The increased rate in *North Coimbatore* is attributed to the comparative thinness of the growth which had to be cleared in the previous year and to the eradication during the year of prickly-pear in the Erode range, while in *South Coimbatore* it was due to the erection of a larger number of demarcation stones. Work in *Tinnevelly* was more or less confined during the year to the plain reserves, and the rate was consequently lower. The cost of demarcation varies directly with the nature of the ground operated upon (*viz.*, hill, plain or scrub areas), the width of the line cut, the density of the growth that has to be cleared and the labour available. No hard and fast rule can therefore be laid down beyond fixing maxima for each of such areas under different conditions of labour and climate, and District Forest-officers should always see that an equivalent is got for the money expended and that the work is thoroughly done.

One thousand four hundred and twenty-five miles of boundaries were re-cleared at a total cost of Rs. 18,516 against 1,713 miles at a cost of Rs. 12,139 in the previous year, but it is satisfactory to note that a larger number of miles were cleared free of extra cost for labour by the forest establishment, the figures for the two years being 3,709 and 3,268 miles respectively. The major portion of the expenditure on re-clearing was incurred in the Northern Circle. In *Gódávari*, where alone Rs. 8,869 were spent, the re-clearing of the boundary lines of many reserves in the Bhadráchalam taluk was undertaken as a famine work. Two hundred miles were put into thorough order and 2,207 substantial cairns erected. The boundaries had become so overgrown that it was impossible to tell which was reserved forest and which was unreserved land, giving ample opportunities for illicit fellings. This was anything but creditable to the officers concerned. Out of Rs. 2,027 shown against *Kurnool*, Rs. 749 were spent in the cutting of working-circle lines and the rest represents the difference between the expenditure under A-VIII (*a*) shown in the Collector's return and the Accountant-General's audited figures in Form No. 59. This large variation has not been explained

by the Collector. The necessity for re-clearing depends on many factors, but if the original demarcation has been properly done the work of re-clearing should be carried out as far as possible by the protective establishment, and the attention of all officers should be directed to this object.

(iv) *Surveys.*

15. The operations of the combined parties Nos. 9 and 19, Survey of India, consisting of four sections, each under the immediate charge of an officer of the Provincial Service, were confined to the four districts of *Kurnool*, *Cuddapah*, *North Coimbatore* and *South Canara*. The year's outturn is shown in the following statement:—

Districts.	Triangulation.	Traversing.	Topography.	
			Total.	Reserved forests.
	SQ. MLS.	L. MLS.	SQ. MLS.	SQ. MLS.
Kurnool	..	8	413	..
Cuddapah	630	180	384	..
North Coimbatore	407	30	727	..
South Canara	392	94	..	..
Total ..	1,429	312	1,524	*..
Total of the previous year ..	950	723	1,350	986

* Information for 1899-1900 not furnished but has been called for.

The several sections were unable to start for field work earlier than the second week in October as arrears of work in office had to be cleared before departure; but the dates of their return were correspondingly postponed to allow of a six months' field season. The number of miles traversed during the year was considerably less than that in the preceding year, but the fall under this head was compensated by the larger amount of work done under triangulation and topography. It is reported that the members of the establishment are being worked at high pressure and the results achieved must be considered satisfactory. With the season's work under report, the triangulation required for *North Coimbatore* was completed and the traversing and topography are expected to be finished within the current year. The fair mapping of the season's topography consisted of sixty sheets, out of which a large number (38) have been kept back from publication pending corrections and omissions pointed out by the District Forest-officers of *Kurnool*, *Cuddapah* and *North Coimbatore*, when they visited the Survey office at Bangalore during the recess in July. The withholding of so many sheets is certainly not satisfactory and the result is ascribed to the "unsatisfactory demarcation and clearing of forest boundaries and the want of assistance to point out the several rights (shrines, paths, &c.) within the reserves," notably in *North Coimbatore*, where the whole season's work had to be withheld. The Collectors of these districts have been asked to investigate the matter.

The actual expenditure for the survey year, inclusive of the cost of instruments, was Rs. 1,07,632 against Rs. 1,00,510 in the previous year. The increase of Rupees 7,122 in the cost has not been explained. The total cost adjusted by the Accountant-General after deduction of the Government of India contribution amounted to Rs. 69,013 for the forest year against Rs. 67,982 in 1898-99. The cost per square mile of topography fell slightly from Rs. 74 during the previous year to Rs. 71 during the year under review, and this decrease is explained by the increase in the outturn.

16. *Departmental surveys.*—Three hundred and fifty-three miles of boundary in *Gódávari* and 145 miles in *Kistna* were surveyed during the year. Besides, 14 maps were prepared in the former district and in the latter district the boundaries of the settled reserves in the Vinukonda range were rectified. A road from Thettu to Horsely-konda was surveyed by the Range officer, Madanapalle, in *Cuddapah*, while the survey of ten reserves was completed with a view to the preparation of working-plans by another

range officer in *Chingleput*. In *North Arcot*, two reserves of 26 square miles were surveyed by the Madras Survey Department and the temporary surveyor accomplished the survey of 39 coupes of an aggregate extent of 11 square miles. An outline survey of 5 square miles of coupes was effected also in *Salem*. A sub-surveyor from the Survey of India Party was deputed in May last to take up the survey of the areas leased out for coffee cultivation on the *Anamalais* and two blocks of 1,000 acres each were surveyed. In *Madura*, the surveyor continued surveying the plots leased out for cardamom cultivation.

17. The work of the draughtsmen employed in the several districts was generally satisfactory, and the details of their outturn are shown in appendix D. Out of the total area of 15,862 square miles of reserved forests final maps for 9,760 square miles were ready at the close of the year (*vide* appendix E).

CHAPTER II.—MANAGEMENT OF STATE FORESTS.

(1) Regulation of Management.

(a) *Working-plans and their control.*

18. As will be seen from Form No. 48, working-plans for 219 square miles were sanctioned by the Board, and plans for 768 square miles were under preparation. These figures show considerable advance as compared with the outturn during the previous year.

Mr. Ribbentrop, Inspector-General of Forests to the Government of India, visited Madras during the year, mainly with a view to give advice about working-plans. He examined incidentally many of the plans already made or in progress, and gave advice about them, and as many officers as possible were introduced to him during his visits to the three circles. In addition he drew out a valuable practical memorandum which has been accepted by the Madras Government as the basis of action for the future. Under the advice thus given a working-plans officer has been appointed in each of the three circles.

The following is a *resumé* of the district reports:—

Northern Circle.

The valuation surveys in the sâl forests in *Ganjám* commenced by Mr. Hearsey in January 1899 and continued by Mr. Cox during the year were completed in March last. Pending the report of the working-plans officer no additional information was entered in the existing reserve books. The registers of yield for each reserve and the record of girth of sâl trees in the two sample plots in Gullery reserve were, as usual, maintained. In *Vizagapatam* there are no working-plans in force, but steps were taken towards the end of the year to collect information required for the preparation of two schemes. The planting and felling operations in the Bendamoorlanka and Kandikuppa plantations in *Gódávari* were carried out during the year in accordance with the sanctioned plans and temporary control books were maintained. Seventy-seven acres were planted with casuarina and 13·5 acres were felled. A sum of Rs. 350 was realised by the latter operation as against Rs. 270 which was anticipated; coupe I (32 acres) of Rameswaram reserve was sold and fetched Rs. 85. Working-plans in respect of four blocks comprising 49 square miles were approved by the Board during the year. In one of these blocks (Devancheruvu) 88 acres were worked over and a satisfactory rate of Rs. 5-8-0 per acre was realized from the fellings. An area of 3,324 acres was opened in the Upputeru mangrove reserve for the removal of fuel on permit, the receipts being Rs. 1,389. The prescriptions in respect of the

third plan (for Mallavaram) were not fully worked up to, owing to short demand from the Samalcota factory, which did not work for a portion of the year. The working of the fourth plan (for Kandikuppa) as well as of two others in respect of 6½ square miles which were approved by the Conservator during the year will commence from the current year. Seven plans in respect of about 22 square miles which had already been tentatively approved by the Conservator were also worked during the year, but the year's working has shown that they require some slight alteration. A preliminary plan for dealing with a large area (220 square miles) of timber forests was for the first time made in the district at the close of the year and the approval of the Conservator to the plan has since been obtained. In *Kistna*, the provisions of the Gopuvanipalem casuarina plantation scheme were for the most part adhered to. No fresh plans were framed: on the other hand the rough plans already prepared for two reserves had to be postponed as there was no demand for the wood. For the same reason no coupe of the Guntúr babul working circle was sold and the contractors were even unable to fell the whole of the coupes sold during the two previous years. No progress was made in *Kurnool* and *Anantapur;* but it is noted that Mr. Cowley-Brown is now inspecting the Nallamalais with a view to framing a plan for supply of fuel to the Southern Mahratta Railway Company. The provisions of the working-plan of the eastern slopes of Ramandrug range in *Bellary* were adhered to, as usual. Four coupes were opened for the manufacture of charcoal, and the bulk of the yield in the other compartments had to be transported to Bellary town and Hospet and Tornagal depots as there was not sufficient demand *in situ*. Mr. Muttanna, the District Forest-officer, after inspecting all the reserves in the district, formulated rough proposals to work them on a systematic basis and secured the Conservator's approval therefor. For reasons recorded in previous reports the Khojjipalli working-plan in *Anantapur* could again not be worked up to.

Central Circle.

In *Cuddapah*, little progress was made in framing working-plans. The provisions of the Balapalle working-plan which is the only one sanctioned were adhered to. The area cut over was 40 acres and the yield was about 4 tons of fuel and 12 cart-loads of brush-wood per acre. In *Nellore*, good progress was made and plans for about 108 square miles (Kavali, the Casuarina plantations and Sríharikota) were sanctioned by the Board, as also the *parcellaire* scheme for the Rapur, Udayagiri and Kanigiri ranges. Five plans for 11 reserves of about 17 square miles were also approved by the Conservator at the close of the year, and the coupe lines are being cut in view to commence operations in the current year. The Survepalli, Nellore, Vavveru, Kothapalli, Casuarina plantation, Kavali and Sríharikota reserves were worked in accordance with the approved plans, but the plan for the Rapur-Yerrakondas had to be held in abeyance as no contractors came forward to purchase the produce. The casuarina plantations were worked departmentally and the actual outturn was 7,858 tons of wood against 10,889 tons estimated in the working-plan. A small quantity of the wood cut was sent to the Madras depot and the rest sold to contractors by weight. The net revenue realized was Rs. 26,294 and the average price obtained per ton at the canal bank and the Madras depot was Rs. 4-15-0 and Rs. 7-7-1 against Rs. 6 and Rs. 8-8-0, respectively, estimated in the working-plan. In the other reserves coupes were leased out to contractors. In *Chingleput*, the permit system was discontinued and the coupe system introduced. In the coupes worked, a number of trees were left as standards to provide small timber for the ryots for agricultural and domestic purposes. The net profit realized from the sale of the several coupes varied from Rs. 2 to Rupees 4-9-4 per acre, except the Meyyur plantation coupe of 30 acres which yielded a total profit of Rs. 1,250. In *North Arcot*, sufficient attention was not paid to this branch of the administration, the Divisional Forest-officer being otherwise engaged. The special working-plans officer appointed for the circle will, however, begin work in this district. The existing working schemes in *South Arcot*, *Salem*, *Tanjore* and *Trichinopoly* were all adhered to during the year except that for the Upper Anicut padugais in Trichinopoly which was again deviated from for the reasons explained in the report for the previous year. In *Salem*, very fair progress was made in the selection of the location of working-circles and it is expected that plans for several

hundred square miles will be ready before the end of the current year. The fellings in the Vettangudi forest in *Tanjore* realized Rs. 880 against Rs. 600 in the previous year.

SOUTHERN CIRCLE.

The only block in *South Canara* for which a regular working-plan has been approved by the Board is Sarpanamane, and coupe No. IV (44 acres) was worked during the year by a contractor who paid Rs. 440. Some progress was made in this district in the collection of statistics for framing plans in respect of three blocks in Coondapoor taluk, but little was done in this direction in *North Malabar* as the District Forest-officer's time was otherwise taken up. In *South Malabar*, the Chenat Nair reserve was worked on the selection system on a rough plan and 500 candies of timber were cut during the year. The Walayar working scheme was again held in abeyance to give rest to the forest which will remain closed till the year 1905. Thinning operations were conducted according to the plan over an area of 670 acres in the Nilambur teak plantations and in all 7,383 saplings were cut, of which only a very small number were unfit for sale. The prescriptions of the working-plan for the natural forests of the Nilambur valley were followed. Owing to the situation of the coupe on hilly ground the outturn was, however, poor. The 80 acres in coupe I of Karimpoya reserve which were cleared during the previous year at a cost of Rs. 2,388 was planted up during the year at a cost of Rs. 492. In the same coupe another block of 125 acres was cleared and prepared for planting. The operations cost Rs. 3,649, but the timber was sold for only Rs. 3,000. In the *Nilgiris* a preliminary working-plan was drawn up for the whole of Benne forests (14 square miles) with a view to regulate the extraction of timber especially *Terminalia tomentosa* required for sleeper operations. Mr. Gamble's working-plans for the Ootacamund and Coonoor plantations, modified according to the state of demand, were worked up to, the method of treatment being simple coppice; while the plan for the fuel plantations of Ootacamund drawn up by Mr. Tireman was held in abeyance, the demand not justifying its introduction. Improvement fellings were carried on in the Mudumalai range in accordance with the principles recommended by Mr. Popert and 325 acres were felled against 300 in the previous year. Working-plans for the sandalwood areas in *North Coimbatore* drawn up by Mr. P. M. Lushington were sanctioned during the year and given effect to. The fuel coupes referred to in the previous year's report proved too large for the demand and a proposal to reduce their size is under consideration; the results in the Thottampalayam working-circle were not favourable even under the modified scheme. The denuded slopes of the Anamalais in Udumalpet taluk in *South Coimbatore* were carefully inspected during the year by the District Forest-officer. The area is reported to require complete rest for a series of years and the preparation of the working-plan for this area and for the extension to the Sholakarai working-circle will be left for the special officer to complete. The provisions of the Ayarangal working-plan were followed as usual and one coupe of 40 acres was cut with satisfactory results, yielding 2,200 cart-loads of fuel against the estimated quantity of 800 cart loads; but 1,783 cart-loads of the wood cut remained unsold at the close of the year and the yield promises to be in excess of the demand. The operations in the Chinnar and Singara tope working-circles, which were in arrears during previous years, were brought up to date. Of the two coupes prescribed for the year 1899–1900 in each of the two working-circles, one was worked departmentally and the other by a contractor, but the results of the operations in the Chinnar working-circle were not on the whole good. The coupe worked by the contractor in the Singara tope working-circle yielded fairly good results, but the results of the departmental operations were not satisfactory. In *Madura*, working-plans for the whole of Palamedu and Kanavoipatti ranges, comprising 248 square miles, were submitted to the Board and have since been sanctioned. The method of treatment proposed is coppice with a rotation of 30 years. The sanctioned working-plans in *Tinnevelly* were in force and all the coupes except one were worked by contractors with fairly satisfactory results. It is, however, stated that the periods of rotation require revision, and steps will be taken to determine accurately the rate of growth. The coupe set down for felling during the year in the Rangarkoil working-circle in the Srívilliputtúr range was not sold owing to the poorness of the growth.

(b) *Annual Plan of Operations.*

19. The sanctioned programmes were generally adhered to in all the districts except *Ganjám*, *Gódávari*, *Kistna* and *Kurnool* in the Northern Circle, *Chingleput* and *South Arcot* in the Central Circle and *South Canara*, *North Malabar*, *South Malabar*, the *Nilgiris* and *North and South Coimbatore* in the Southern Circle. The subject has not been dealt with in the reports from *Nellore* and *Salem*. In *Ganjám*, the programme was too large for the staff to carry out and had to be revised. The funds intended for the extraction and transport of sleeper-logs from the Rekapalli hills in *Gódávari* were utilized for line-clearing undertaken as a famine work. The change was necessitated by the drought. Two tanna sheds were not constructed for want of water and another for want of a good site. On the other hand three wells not provided for but urgently required were constructed. In *Kistna*, some of the roads were not undertaken the budget provision having been reduced by Government. The silt from the Hamsaladivi canal was cleared though not provided for. The change of officers in *Kurnool* accounted for the divergences from the plans in that district. Certain demarcation works proposed were not done while the construction and repair of certain roads and buildings were carried on outside the plan. Owing to the drought that prevailed during the greater part of the year cultural operations in *Chingleput* were not fully carried out. The felling of certain coupes proposed to be done on contract had to be undertaken departmentally as no purchasers came forward, and for the same reason several coupes remained unsold. In *South Arcot*, the progress anticipated under "demarcation" could not be made for want of competent foresters; the exploitation of bamboos in the Nattampalli block was undertaken departmentally to provide living for the Malayalees of Chekkadi; all the fuel coupes proposed could not be worked. The construction of certain roads and buildings in *South Canara* had to be postponed to provide funds for the more urgent work of final demarcation for the Survey of India Party. In *South Malabar*, certain works were not executed for want of labour and new works had to be undertaken in connection with sleeper operations; while, in *North Malabar*, the felling of trees for sleepers interfered with the carting of 1,300 cubic feet of Benteak to Mysore and minor produce was collected by the purchasing contractors instead of departmentally. To give rest to the forests no timber operations were carried out in the *Nilgiris* except those required for sleepers. The sale of charcoal was also impeded, the proprietors of the breweries, the chief consumers, having made private arrangements for the supply. In *North Coimbatore*, the chief deviations consisted in the construction of a minor produce godown and the alignment of a road trace, the works being found to be urgently required. Owing to brisk demand it was also found advisable to undertake timber operations in the Kollegal range which proved a success. In *South Coimbatore*, the felling of posts and poles in the extension of the Sholakarai working-circle was not carried out owing to absence of demand. A rest-house and quarters for the subordinate establishments were not built as the buildings were not considered urgent. For the same reason the digging of a well near the workshop below Mount Stuart was postponed.

(2) WORKING OF THE YEAR.

(a) *Roads and Communications.*

20. The subjoined statement shows the outlay on communications and buildings during the year under report as compared with the previous year :—

	1898–99.	1899–1900.
	RS.	RS.
Roads and bridges	38,614	33,229
Buildings	49,409	43,931
Other works	5,376	9,148

Compared with the figures of the previous year, there was a decrease in the expenditure under "roads and bridges" and under "buildings" and an increase under "other works." The decrease was for the most part due to the fact that only important new works were taken in hand.

In the Northern Circle a sum of Rs. 12,635 was spent on "roads and bridges." A large portion of this expenditure was incurred in *Gódávari* and *Kurnool*. The work in the former district consisted, besides repairs to the existing roads, in the construction of (i) 14 miles of the Ramanayyapet-Lodiddi road at a cost of Rs. 3,425 in continuation of the portion already completed, (ii) timber tracks in the Rekapalli reserve of the Bhadráchalam taluk at a cost of Rs. 1,350 for opening up the forests, and (iii) one mile of Chemanapalli road. In *Kurnool*, the chief work carried out was the construction of 14 miles of Pogapada-Chinnamantarala road costing Rs. 3,061, of which only Rs. 2,511 was paid during the year and the balance after its close. Four new roads of a total length of 21 miles were made in *Kistna* at a cost of Rs. 1,229, while in *Anantapur* four inspection paths and three roads of a total length of 21 miles were constructed at a cost of Rs. 967. The widening and draining in parts of the Kondapalli hill road in the former district referred to in the last year's report was completed during the year. The marked decrease in expenditure on roads in *Bellary* was accounted for by the fact that no new work was undertaken in the leased forests in view of the approaching termination of the lease. The new works and repairs undertaken in the remaining districts in the circle were comparatively unimportant.

In the Central Circle the amount expended on roads was Rs. 5,232. About 50 per cent. of this expenditure was incurred in *North Arcot*, where the Patracad ghât road was extended by 2 miles and 105 miles of existing roads were repaired.

In the Southern Circle the expenditure on roads amounted to Rs. 15,362, and the bulk of this amount was spent in repairs, chiefly in *North* and *South Coimbatore* and *Tinnevelly*. In *North Coimbatore* a sum of Rs. 3,054 was spent in repairing the two main ghât roads from Hassanur to Lokkanhalli and from Aggipuram to Chellampalayam, and among new works may be mentioned the cutting of a trace from Kempanaikenpalayam to Bylur in the Satyamangalam taluk. In *South Coimbatore* a considerable sum was expended on the installation of the wire ropeway at Mount Stuart. In *Tinnevelly* the existing roads and bridle-paths were repaired, while in *South Malabar* work was done on 4 miles of road from Mandakadava to the ghât and on compartment roads in the young plantations in coupe No. I of the Karimpoya reserve.

Under "buildings" the most important work undertaken during the year in the Northern Circle was the construction of a rest-house at Chulakanchalli in *Bellary*, and the completion of another at Rollapalli in *Anantapur*. A large outlay was incurred in *Kurnool* in completing the repairs to the Cumbum, Adutla and Papinesaipalli rest-houses and in executing minor repairs to Mantrala rest-house, to Nandyal and Atmakur range houses and to some tannas. Houses for subordinate establishments were also built in some of the districts, and repairs were carried out to existing buildings. In the Central Circle a few rest-houses were constructed and some others were in course of construction. Over a thousand rupees were spent in *Cuddapah* in repairing the bungalows and other buildings. Sundry repairs were also made to the existing buildings in other districts. In the Southern Circle, the chief works of importance were the construction of (i) a new District Forest office at Nilambúr in *South Malabar* and (ii) a portion of a godown at Satyamangalam in *North Coimbatore* for storing minor forest produce, at a cost of Rs. 3,764. A sum of Rs. 1,794 was spent on the former work and arrangements were made for its completion. The Kadiki rest-house in *South Canará* and certain buildings in the High Waving mountains in *Madura* were also completed. There were no important works in the other districts, but sundry works of construction and repair were executed in all districts.

21. *Tramways.*—The 3½ miles of tramway in Cuddapah were transferred to Nellore during the year with the approval of the Conservator of Forests, Central Circle. The tramway in Sríharikóta range in Nellore is 4 miles long and that in the casuarina plantation range 6½ miles. The quantity of wood carried by it in the former range was 4,917 tons or 19,666 ton miles as against 25,265 in the previous year, while that carried in the latter range was 2,011 tons or 13,074 ton miles against 3,677 in 1898–99. The system of dragging the trucks by buffaloes instead of by men was introduced in Nellore during the year with considerable success, and it is proposed to extend the

system. The tram line in South Coimbatore was extended by a lengthof 3 furlongs to compartment No. 12 of the Tekadi leased forest at a cost of Rs. 310. The total quantity trammed on that line was 36,143 cubic feet against 14,988 cubic feet in 1898–99. It is reported that a much larger quantity would have been trammed but for the refusal of the contractor to load larger quantities except on terms which it was impossible to accept and the difficulty in securing contractors for the purpose. It is, however, contemplated to supplement the transport arrangements by purchasing a considerable number of draught animals. In pursuance of this proposal, the Collector recently applied for and the Board sanctioned the purchase of 10 pairs of bullocks at a cost of Rs. 1,500. The orders of Government on the subject of arriving at an estimate of the utility of the tramways maintained by the Madras Forest Department were received after the close of the year.

(b) *Protection of Forests from Injury.*

(1) General Protection and Breaches of Forest Laws.

22. The following statement compares the new cases of the year with particulars of last year :—

Circle.	Year.	Number of cases pending at commencement of the year.	New cases of the year.					Total cases.	Cases pending at close of the year.
			Injury by fire.	Unauthorised felling, &c.	Illicit grazing.	Other offences.	Total new cases.		
Northern ..	1898-99	665	35	2,580	1,793	320	4,728	5,393	629
	1899-1900 ..	629	27	2,728	1,891	301	4,947	5,576	602
	Difference ..	— 36	— 8	+ 148	+ 98	— 19	+ 219	+ 183	— 27
Central ..	1898-99 ..	1,078	17	4,879	5,264	401	10,561	11,639	1,305
	1899-1900 ..	* 1,301	87	6,241	5,615	443	12,386	13,687	1,853
	Difference ..	+ 223	+ 70	+ 1,362	+ 351	+ 42	+ 1,825	+ 2,048	+ 548
Southern ..	1898-99 ..	457	92	1,613	1,107	194	3,006	3,463	430
	1899-1900 ..	* 430	209	1,846	841	221	† 3,117	3,547	450
	Difference ..	— 27	+ 117	+ 233	— 266	+ 27	+ 111	+ 84	+ 20
Presidency ..	1898-99 ..	2,200	144	9,072	8,164	915	18,295	20,495	2,364
	1899-1900 ..	2,360	323	10,815	8,347	965	20,450	22,810	2,905
	Difference ..	+ 160	+ 179	+ 1,743	+ 183	+ 50	+ 2,155	+ 2,315	+ 541

* *Vide* explanation in Form No. 50 for variations in opening balances.
† Excludes petty offences in South Canara.

The total of new cases reported during the year increased by 11·7 per cent. for the Presidency and the increase was spread over all heads of offences. The largest increase (17·2 per cent.) was again in the Central Circle. In *Kurnool*, *North Coimbatore*, *South Coimbatore* and *Vizagapatam* crimes decreased by 24·6, 18·4, 16·7 and 16·4 per cent., respectively, and also slightly in *Anantapur*, *North Arcot*, *Tinnevelly*, *Madura* and *South Malabar*. This decrease was more than compensated by increase in the other districts, notably in *Kistna*, *Bellary*, *Chingleput*, *Salem*, *Tanjore* and *South Canara*, where the numbers rose from 1,011, 595, 915, 1,938, 74 and 533 to 1,386, 844, 1,759, 2,494, 270 and 880, respectively. The general increase in the number of offences was the result of the scarcity that prevailed. It was also partly due to better supervision and increased vigilance on the part of the protective staff and to the inclusion in the returns of a comparatively larger number of undetected cases in *South Arcot*, *Salem*, *South Canara*, *Madura* and *Tinnevelly*. The number of forest offences reported in the different districts varies largely, and *South Arcot* and *South Canara* still continue to be first and second in the list. *North Arcot* and *Salem*, which stood third and fourth in the previous year, have changed places, and *Chingleput*, which has risen three places ranks fifth. The abnormal rise in the number of cases reported in the last mentioned district is explained to be due chiefly to the increased vigilance of the

protective staff and to the system of treating the case of every individual concerned with others in the commission of an offence as a separate charge. This explanation does not, however, appear to be satisfactory, seeing that the system was the same in the previous years, but the scarcity that prevailed throughout the year under report possibly contributed in a measure to the increase.

The cases of "injury by fire" increased in the Central and Southern Circles, notably in *North Arcot*, *South Arcot*, *Salem*, *South Canara*, *the Nilgiris* and *Madura*. Most of these cases were undetected and it was impossible to get any clue to the delinquents; most cases were believed to be due to incendiarism. In *South Canara* alone 123 cases were reported, and 97 of these were undetected. "Unauthorized felling" increased largely in *Kistna* and *Bellary* in the Northern Circle, *South Canara* and *Madura* in the Southern Circle and in all the districts except *Nellore* and *North Arcot* in the Central Circle. The increase was but slight in *Ganjám*, *Gódávari*, *Nellore*, *North Malabar* and *North Coimbatore*. In the other districts there was a fall in the number of offences of this description, notably in *Vizagapatam*, *Kurnool*, *North Arcot* and *South Coimbatore*. The majority of the cases in *Kistna* related to the removal of the leaves of *Hardwickia binata*, &c., for fodder. As fodder became scarce the closed areas were opened to stripping of leaves on payment of seigniorage which was reduced to 3 pies per head-load; nevertheless many attempts were made to evade payment. In *Bellary*, the labouring classes being deprived of their usual livelihood on account of the scarcity are reported to have taken to illicit fuel trade, which in most cases was confined to the removal of head-loads. The large increase in *South Canara* has not been explained. A considerable number of timber thefts in *Madura* was committed by the Kallars living in the villages near the forests of Cumbum range. In *Cuddapah*, the increase was the result of the prevalence of famine, while in the other districts more efficient supervision is given as the cause. The decrease in *Vizagapatam*, *North Arcot* and *Kurnool* has not been explained by the Collectors, but the Conservator, Northern Circle, considers it to be due probably in the first mentioned district to reduced protection consequent on the change of officers. It is satisfactory to note that the decrease in *South Coimbatore* is believed to have been due to the better knowledge of the people of the provisions of the Timber Transit Rules. "Grazing offences" showed a fall in *Kurnool* in the Northern Circle, *Cuddapah*, *South Arcot* and *Trichinopoly* in the Central Circle and *North Coimbatore*, *South Coimbatore*, *Madura* and *Tinnevelly* in the Southern Circle. In *Anantapur* the cases reported were nearly the same in the two years. In the other districts, there was an increase which was for the most part due to better detection and to the unusually dry weather. In *North Arcot*, there was much illicit browsing by goats, and it is under consideration to levy double pound-fees in certain localities. A scheme for goat-browsing is also reported to have been completed. In *Kurnool* and *Cuddapah*, the decrease was apparently the result of the concession of free grazing allowed in the reserves and in *South Arcot*, grazing in reserves was not sufficiently attractive. In *Trichinopoly* and *South Coimbatore*, the permission accorded to graze cattle in several reserves previously closed to grazing accounted for the decrease, while in *North Coimbatore* it is reported to be due to cattle owners beginning to realise the necessity for taking out permits. The fall in *Madura* was due to better supervision, and the increased grazing revenue obtained seems to support this view. The number of cattle impounded in the Tiruvannámalai taluk and the amount of pound-fees, compensation and fines levied for the three years since the enhanced rate has been in force are shown in the following statement:—

Year.	Number of animals.	Pound-fees.	Compensation.	Fines.	Total.
		RS.	RS.	RS.	RS.
1897-98	19,758	3,478	3,940	711	8,129
1898-99	18,722	3,940	2,710	823	7,473
1899-1900	11,433	2,728	2,105	528	5,361

The number of animals dealt with and the money paid were less than in the previous two years, but the Collector is of opinion that it would be hasty to jump to the conclusion that trespasses have decreased.

Under "other offences" there was a decrease in all the districts except *Kistna*, *Cuddapah*, *Salem* and *North Coimbatore*, where there was a large increase. Neither the increase nor the nature of the offences have been explained in the first three districts. In *North Coimbatore*, it was due to the detection of a large number of cases of unauthorized cultivation, but the convictions in most of these cases were quashed on appeal on technical grounds. Illicit clearing of jungle for cultivation is reported to be rife also in *Ganjam*.

The number of cases pending at the close of the year was 2,905 against 2,364 in the previous year.

23. The disposal of offences during the year is compared with that of the previous year in the following abstract:—

Circle.	Year.	Total.	Withdrawn.				Compounded.		Prosecuted.		Percentage of cases prosecuted to disposals.	Percentage of acquittals to cases prosecuted.
			Undetected.	Withdrawn.	Total.	Percentage of column 6 to col. 3.	Number.	Percentage.	Convicted.	Acquitted.		
Northern.	1898-99 ..	4,764	168	549	717	15·1	2,355	49·4	1,446	246	35·5	14·5
	1899-1900..	4,974	170	620	790	15·8	2,822	56·7	1,165	197	27·5	14·5
	Difference.	+ 210	+ 2	+ 71	+ 73	+ 0·7	+ 467	+ 7·3	— 281	— 49	— 8·0	..
Central.	1898-99 ..	10,334	17	1,160	1,177	11·4	6,390	61·8	2,407	360	26·8	13·0
	1899-1900..	11,834	515	952	1,467	12·4	7,543	63·7	2,501	323	23·9	11·4
	Difference.	+ 1,500	+ 498	—208	+290	+ 1·0	+ 1,153	+ 1·9	+ 94	— 37	— 2·9	— 1·6
Southern.	1898-99 ..	3,038	82	388	470	15·5	1,325	43·7	1,090	148	40·8	11·9
	1899-1900..	3,097	347	352	699	22·5	1,289	41·7	959	150	35·8	13·5
	Difference.	+ 64	+ 265	— 36	+229	+ 7·0	— 36	— 2·0	— 131	+ 2	— 5·0	+ 1·6
Total, Presidency.	1898-99 ..	18,131	267	2,097	2,364	13·0	10,070	55·6	4,943	754	31·4	13·2
	1899-1900..	19,905	1,032	1,924	2,956	14·9	11,654	58·5	4,625	670	26·6	12·7
	Difference.	+ 1,774	+ 765	—173	+592	+ 1·9	+ 1,584	+ 2·9	— 318	— 84	— 4·8	— 0·5

The proportion of acquittals to cases dealt with by the magistracy increased and decreased in the Southern and Central Circles respectively by 1·6 per cent. but remained the same in the Northern Circle, the net result being a very slight improvement (0·5 per cent.) for the Presidency. Taking the districts individually, the acquittals increased by 14·3 per cent. in *Kurnool* and 6·7 per cent. in *Kistna*; the percentages standing as high as 24·3 per cent. and 21·2 per cent. respectively and decreased in the other districts of the Northern Circle. This state of things in *Kurnool* is reported to be the result of an order passed without the Collector's knowledge directing Range officers to submit offence reports for orders without any preliminary enquiry in consequence of which a large number of cases failed. It is, however, reported that the order has been cancelled. The increase in *Kistna* is ascribed partly to reluctance on the part of Magistrates to accept the uncorroborated testimony of forest subordinates. In *Vizagapatam* where the percentage fell from 11 to 3, all the ten cases acquitted appertained to the Palkonda range and in the absence of information of the number of cases tried by the magistracy in that range no conclusions can be drawn as to whether the results were satisfactory or not. In the Central Circle acquittals increased in *Salem*, *Trichinopoly* and *Tanjore* by 6·2, 3·5 and 7·4 per cent. and in *Tinnevelly*, the *Nilgiris* and *South Coimbatore* in the Southern Circle by 6·3, 15·3 and 2·9 per cent., respectively, while they decreased in *Cuddapah*, *Nellore*,

North Arcot, *South Arcot* and *North Coimbatore* by 7·5, 1·7, 3·9, 4·3 and 2·1 per cent., respectively. In *Salem* and the *Nilgiris* the prosecution of the cases was badly conducted by the forest subordinates, while in *Trichinopoly* and *Tinnevelly* the Magistrates were unwilling in many cases to accept the unsupported evidence of forest subordinates. The increase in *South Coimbatore* and *Tanjore* was due to the larger number of cases taken before the Magistrates. In *South Canara* the percentage still stood at the high figure of 20 and was due partly to the delay by the land revenue authorities in reporting crimes committed in unreserved lands; 25 out of the 44 cases acquitted during the year in the district broke down in this way.

The percentage of cases withdrawn to cases disposed of increased largely (7 per cent.) in the Southern Circle and slightly in the Northern and Central Circles. The figure for the Presidency was also worse by 1·9 per cent. In the Northern Circle the large increase in *Ganjám* (13 to 19·3 per cent.), *Gódávari* (22·6 to 27·6 per cent.), *Kurnool* (8·5 to 17·4 per cent.), *Bellary* (12 to 15·4 per cent.) and *Anantapur* (11 to 18·3 per cent.) was almost counterbalanced by the large falling off in *Vizagapatam* (22 to 15·8 per cent.) and *Kistna* (15·5 to 9 per cent.). The inclusion of a larger number of undetected cases in the returns in *Ganjám* and *Kurnool* contributed partly to the increase in these districts, and in the latter district it was also due to many old cases dating as far back as 1896 having been struck off the file as there was little chance of getting convictions after such a long delay, which delay, however, has not been explained. In *Gódávari* most of the cases were withdrawn after a warning, and in several doubtful cases of illicit grazing in *Bellary* the graziers were allowed the option of taking out permits. In *Anantapur* some of the offences withdrawn were of a petty nature, and in some the evidence was insufficient. A few cases were also withdrawn on account of the delay in reporting them. *Cuddapah* and *North Arcot* in the Central Circle showed a fall of 7·5 per cent. and 2·3 per cent., respectively. In the other districts of the Presidency the percentages rose,—very largely in *Nellore*, *South Arcot*, *Salem*, *Tanjore*, *South Canara*, the *Nilgiris*, *South Coimbatore* and *Madura*, viz., by 15·2, 4·8, 19·3, 7·9, 16·4, 8, 13·8 and 4·7 per cent., respectively. In *Nellore*, 36 per cent. of the cases withdrawn related to goat browsing and in all the other districts except *South Coimbatore* the increase was for the most part due to the very large number of undetected cases reported during the year and shown as withdrawn in the returns. In *South Canara*, more than 50 cases were withdrawn for want of evidence and also all cases which appeared suspicious in *South Coimbatore*. The percentage of cases compounded diminished again in the Southern Circle, while it increased largely (7·3 per cent.) in the Northern Circle and slightly (1·9 per cent.) in the Central Circle. The number of cases compounded increased very largely in *Kistna* and *Bellary* in the Northern Circle; *Chingleput*, *Salem*, *Trichinopoly* and *Tanjore* in the Central Circle; and *South Canara* in the Southern Circle. As stated in the reports of previous years the Board believes that only serious cases were taken before the Magistrates, while, speaking generally, all the grazing cases and offences of a petty nature in which there was clear evidence of guilt were compounded.

The following statement compares the amount of compensation realised during the year in each circle and the average amount per case and per person involved, with those of the previous year:—

Circle.	During 1898-99.			During 1899-00.		
	Amount realised.	Average per case.	Average per person accused.	Amount realised.	Average per case.	Average amount per person accused.
	RS.	RS. A. P.	RS. A. P.	RS.	RS. A. P.	RS. A. P.
Northern	17,092	7 4 1	2 11 9	16,495	5 13 6	1 14 1
Central	37,630	5 14 2	2 8 5	49,042	6 8 1	2 14 3
Southern	8,921	6 11 8	2 10 1	6,709	5 3 3	2 1 5
Total ..	63,643	6 5 1	2 9 7	72,246	6 3 2	2 7 11

There was again a satisfactory reduction in the average amount paid per person in the Northern and Southern Circles as well as in the Presidency generally, while it increased in the Central Circle. The total amount realised decreased in the Northern and Southern Circles and increased very largely in the Central Circle, the net result being also an increase for the Presidency. The increase was accompanied by a rise in the number of cases compounded. In *Kistna*, *Chingleput*, *North Arcot*, *Salem*, *Trichinopoly* and *Tanjore* the amount collected rose from Rs. 4,225, Rs. 1,006, Rs. 8,839, Rs. 5,898, Rs. 3,499 and Rs. 99 to Rs. 6,005, Rs. 2,656, Rs. 11,923, Rs. 12,026, Rs. 4,645 and Rs. 510, respectively, while it fell in *Kurnool*, *Bellary*, *South Arcot* and *Tinnevelly* from Rs. 4,058, Rs. 5,308, Rs. 15,474 and Rs. 3,454 to Rs. 2,862, Rs. 4,337, Rs. 14,859 and Rs. 1,956, respectively. It is reported that in *North Arcot* higher rates were levied on old offenders and in cases of illicit browsing with a view to produce a deterrent effect. This fact and the larger number of goats detected in each case contributed to the increase in the district. The increase in *Salem* was the result of the large increase in the number of cases compounded and of the levying of a higher rate in goat-browsing cases.

In *Gódávari*, a case of forgery of a permit was detected in the Bhadráchallam sub-division and the accused was sentenced to a year's rigorous imprisonment and a fine of Rs. 200. A curious case of impersonation was also detected, in which the offender pretended that he was an officer of the Survey Department with authority to exclude portions of reserved forests and actually went about the Peddapuram range altering the boundaries and handing over the lands thus excluded for a consideration, to the villagers for purposes of cultivation. He was convicted and sentenced to three months' rigorous imprisonment. One case of illicit felling and removal of about 83 maunds of sandalwood was detected in *North Coimbatore*. Two of the twenty persons charged were convicted and sentenced to six and three months' simple imprisonment and a fine of Rs. 500 and Rs. 200, respectively. On appeal, however, the District Judge reduced the sentence to 25 days' simple imprisonment and a fine of Rs. 50 each. Two other persons were charged with illegal shooting of an elephant and were sentenced to undergo two and one and a half months' rigorous imprisonment and to pay a fine of Rs. 100 and Rs. 10, respectively. An appeal has been preferred and is pending with the Deputy Magistrate. The convictions in three out of five cases under the Sandal Transit Rules were appealed against and quashed. A sentence of six months' rigorous imprisonment was awarded to a man who was charged with extortion and falsely personating a forest guard. In *South Coimbatore* a wealthy and influential ryot of Méttupálaiyam was charged with illicit cutting of a large number of trees on poramboke land worth about Rs. 2,000 and sentenced to three months' imprisonment and a fine of Rs. 1,000. An appeal was preferred to the Sessions Judge, who confirmed the sentence. In another case twenty-four men, residents of Madura, committed theft of vengai trees on the Anamalais, and the Range officer who tried to seize the timber with the help of a few watchers was assaulted and forcibly taken to Palni. The case was enquired into by the Head Assistant Magistrate and three of the principal offenders received exemplary punishment, one being sentenced to four years, and the other two each to two years and nine months' rigorous imprisonment. There were no cases of importance worth noting in the other districts.

24. Rewards were, as a rule, very sparingly granted during the year. Rs. 346 were disbursed to informers (including forest subordinates) and Rs. 201 to the subordinates of the Abkári department. No information on the subject is contained in the reports from *Madura* and *Tinnevelly* and no disbursements were made in the districts of *Ganjám*, *Kurnool*, *Bellary*, *Cuddapah*, *Nellore*, *Salem*, *Trichinopoly*, *Tanjore*, *North Malabar*, *South Malabar* and *South Coimbatore*. In *Anantapur* Rs. 183 were disbursed to the subordinates of the Abkári department in respect of ten cases. In *North Arcot* rewards were given to forest subordinates for detecting serious cases of illicit goat-browsing: the great prevalence of goats and the connivance of subordinates in goat-browsing in reserves constitute a very difficult problem. In all Rs. 110 were paid to the forest subordinates in this way. The statements prescribed by the Government of India are appended below:—

No. I.

Circle.	Cases taken into Court.				Cases compounded.			
	Injury to forests by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Injury to forests by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.
1	2	3	4	5	6	7	8	9
Northern	9	888	507	105	5	1,745	1,340	178
Central	9	1,651	1,376	176	3	4,236	4,092	233
Southern	32	623	374	120	8	1,110	411	94
Total ..	50	3,162	2,257	401	16	7,091	5,843	505

Circle.	Cases undetected.				Total cases.				Grand total of cases.
	Injury to forests by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Injury to forests by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	
	10	11	12	13	14	15	16	17	18
Northern	13	95	44	18	27	2,728	1,891	301	4,947
Central	75	354	147	34	87	6,241	5,615	443	12,386
Southern	169	113	56	7	209	1,846	841	221	3,117
Total ..	257	562	247	59	323	10,815	8,347	965	20,450

No. II.

Details of prosecutions for offences by fire.

Division.	Serial No. of fire.	Areas burnt.	Character of offence (whether careless or intentional).	Whether acquitted or convicted.	Section of law under which convicted.	Amount of punishment.
Vizagapatam *	1	10 acres.	Careless	Withdrawn ..	....	....
	2	4 ,,	Do. ..	Convicted	Section 21 (*b*) of the Forest Act ..	Sentenced to rigorous imprisonment for fifteen days.
	3	1,280 ,,	Do. ..	Do. .. .	Do. do. ..	Eleven persons were fined Rs. 2 each.
	4	640 ,,	Intentional ..	Do. ..	Do. do. ..	Six accused were fined Rs. 2 each, in default eight days' rigorous imprisonment each.
	5	1,760 ,,	Do. ..	Do.	Section 26 of the Forest Act ..	Fined Rs. 5, in default five days' rigorous imprisonment.
	6	2 ,,	Careless	Do.	Do. do.	Three were fined Rs. 5 each, in default four days' rigorous imprisonment.
Gódávari	1	15 ,,	Intentional ..	Do.	Section 21 of the Forest Act	Fined Rs. 15.
	2	100 ,,	Do. ..	Withdrawn ..	....	Withdrawn for want of direct evidence.
	3	160 ,,	Do. ..	Convicted	Section 21 (*b*) of the Forest Act ..	Two were fined Rs. 3 each.
Kistna	1	2 ,,	Careless	Do.	Do. do. ..	Fined Rs. 45.
	2	2 cents.	Do. ..	Compounded ..	....	Compounded for Rs. 7.
	3	1 furlong.	....	Do.	....	Do. for ,, 3.
Kurnool	1	No information.	Intentional ..	Convicted	Section 21 (*b*) of the Forest Act ..	Two were fined Rs. 20 each. This is the case shown as pending last year.
	2	8,025 acres.	Do. ..	Do.	Do. do.	Sentenced to simple imprisonment for one month.
Bellary	1	*Nil.*	Do. ..	Compounded ..	Section 21 of the Forest Act ..	Compounded for Rs. 5.
	2	Do.	Do. ..	Do. ..	Do. do. ..	Do. for Re. 1.
	3	Do.	Do. ..	Do. ..	Do. do.	Do for Rs 5.
	4	Do.	Do. ..	Pending	Do. do.	....
Cuddapah †	1	No information.	Do. ..	Convicted	Do. do.	Two were sentenced to fifteen days' rigorous imprisonment each.
	2	½ acre.	Do. ..	Do.	Do. do.	Two were sentenced to two weeks' rigorous imprisonment each.
	3	No information.	Do. ..	Pending	....	....
North Arcot	1	50 acres.	Do. ..	Convicted	Section 21 (*b*) of the Forest Act ..	Fined Rs. 20, in default to undergo one month's rigorous imprisonment.
South Arcot	1	3 ,,	Do. ..	Pending	Do. do.	....
Salem	1	5 ,,	Do. ..	Convicted	Do. do.	Four were fined Rs. 5 each, in default to undergo twenty days' rigorous imprisonment.
	2	No information.	Do. ..	Do.	Do. do.	Fined Rs. 30, in default seven days' simple imprisonment.
	3	About 10 acres.	Do. ..	Do.	Do. do.	Sentenced to undergo fifteen days' rigorous imprisonment.
	4	No information.	Do. ..	Do.	Do. do.	Twelve were fined Rs. 10 each, in default fifteen days' rigorous imprisonment each.
	5	Do.	Do. ..	Do.	Do. do.	Fined Rs. 20, in default a fortnight's rigorous imprisonment.
	6	Do.	Do. ..	Do.	Do. do.	Sentenced to four weeks' rigorous imprisonment.
South Canara ‡	1	29 acres.	Careless	Do.	Do. do.	Fined Rs. 28.
	2	8 ,,	Do.	Compounded ..	Rules under section 26 of the Forest Act	Compounded for Rs. 15.
	3	2 ,,	Intentional ..	Withdrawn ..	....	....
	4	72 ,,	Do. ..	Convicted	Section 21 (*b*) of the Forest Act ..	Fined Rs. 20.
	5	408 ,,	Do. ..	Compounded ..	Do. do.	Compounded for Rs. 26.
	6	504 ,,	Do. ..	Acquitted	....	....

* Of the three cases pending at the close of the year, two were withdrawn, and the accused in the other were fined Rs. 2 each.
† In Form No. 50 two cases are recorded as "taken to Court" and two cases as "compounded." The variation has not been explained.
‡ Do. eighteen cases do. and eight cases do. do.

No. II—*cont.*

Division.	Details of prosecutions for offences by fire.					
	Serial No. of fire.	Areas burnt.	Character of offence (whether careless or intentional).	Whether acquitted or convicted.	Section of law under which convicted.	Amount of punishment.
North Malabar	1	30 acres.	Careless	Acquitted	....	....
	1	320 ,,	Intentional ..	Convicted	Section 426, Indian Penal Code ..	One was sentenced to three months and twenty-five days' rigorous imprisonment, and another to twenty-five days' rigorous imprisonment.
The Nilgiris	2	1,060 ,,	Do. ..	Pending	....	....
	3	30 ,,	Do. ..	Acquitted	....	....
	4	Not given.	Accidental ..	Withdrawn ..	....	....
North Coimbatore	1	*Nil.*	Careless	Convicted	Section 21 of the Forest Act	Fined Rs. 5.
	2	About 9 miles.	Do. ..	Acquitted	Do. do.	....
	3	*Nil.*	Do. ..	Convicted	Do. do.	Fined Rs. 3.
	4	740 acres.	Intentional ..	Pending	....	....
	5	*Nil.*	Careless	Convicted	Section 21 of the Forest Act ..	First accused was fined Rs. 5, and the second Rs. 10.
South Coimbatore	1	15 acres	Do. ..	Do.	Do. do. ..	The accused (two women) were fined Rs. 2 each, in default two days' simple imprisonment.
	2	400 ,,	Do. ..	Acquitted	....	This is the case shown as pending at the close of the previous year.
Madura	1	....	Intentional ..	Pending	....	....
	2					
Tinnevelly	1	1,000 acres.	Do. ..	Convicted	Section 21 (*b*) of the Forest Act ..	Of the 16 accused, one was fined Rs. 35, in default to undergo two months' rigorous imprisonment and the rest were acquitted.
	2	300 ,,	Do. ..	Do.	Not stated	Sentenced to two months' rigorous imprisonment and to a fine of Rs. 15, in default additional imprisonment for fifteen days. This is the case shown as pending at the close of the previous year.

No. III.

Division or Circle.	A. Fire caused by accident or through carelessness in burning fire lines.		B. Fires entering the forests by crossing exterior fire traces.		C. Fires beginning inside the reserve or fire traced areas. Owing to carelessness or accident.							
					By workmen employed in the forests, by purchasers of forest produce, and by Yah-cutters.		By villagers, travellers, &c., passing through the forests.		By railway engines.		By lightning or by fire-balloons.	
	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.
1	2	3	4	5	6	7	8	9	10	11	12	13
Northern Circle.												
Ganjám	..	..	2	24	..	..	26	1,356	..	..	..	..
Vizagapatam	..	..	..	..	4	1,296	..	..	..	..	..	..
Gódávari	..	..	..	..	..	..	2	155	..	..	..	..
Kistna	..	..	1	360	..	..	1	3	..	..	..	..
Kurnool	..	..	..	..	..	..	..	..	..	..	..	..
Bellary	3	825	2	10,000	..	..	..	..	..	..	..	..
Anantapur	..	..	..	..	..	..	..	..	..	..	..	..
Total, Northern Circle ..	3	825	5	10,384	4	1,296	29	1,514	..	..	..	..
Central Circle.												
Cuddapah	..	..	3	820	..	..	..	..	..	..	..	..
Nellore	..	..	3	1,120	..	..	..	..	..	..	..	..
Chingleput	..	..	..	..	..	..	..	..	..	..	..	..
North Arcot	1	30	26	2,717	4	340	3	43	2	7	..	..
South Arcot	..	..	3	985	..	..	3	9	..	..	..	..
Salem	3	105	1	100	..	..	2	11	..	..	..	..
Trichinopoly	..	..	..	..	1	5	..	..	..	..	..	..
Tanjore	..	..	..	..	..	..	..	..	..	..	..	..
Total, Central Circle ..	4	135	36	5,742	5	345	8	63	2	7	..	..
Southern Circle.												
South Canara	..	..	13	1,491	1	300	21	3,061	..	..	..	..
North Malabar	1	30	4	12,802	..	..	..	..	..	..	..	..
South Malabar ..	2	50	1	40	..	..	..	..	..	..	..	..
The Nilgiris	..	..	..	..	..	..	6	31	1	4	..	..
North Coimbatore	..	..	..	..	..	..	..	..	..	..	..	..
South Coimbatore	..	..	8	7,853	10	4,266	2	30	..	..	..	..
Madura	..	..	15	5,483	1	10	7	583	..	..	..	..
Tinnevelly	1	20	13	1,303	6	1,360	1	200	..	..	2	50
Total, Southern Circle ..	4	100	54	28,972	18	5,876	37	3,905	1	4	2	50
Total, Presidency ..	11	1,060	95	45,098	27	7,517	74	5,482	3	11	2	50

No. III—*cont.*

Division or Circle.	C. Fires beginning inside the resreve or fire traced areas—*cont.*										Total A, B and C.	
	By intentional firing.								Causes unknown.			
	In order to obtain new grass.		In order to turn out game or to reduce cover.		Maliciously fired.		Total.					
	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.
	14	15	16	17	18	19	20	21	22	23	24	25
Northern Circle.												
Ganjám	..	..	..	..	..	..	..	..	23	1,522	51	2,902
Vizagapatam	2	2,400	..	..	..	..	2	2,400	..	..	6	(a) 3,696
Gódávari	..	..	1	160	2	115	3	275	6	273	11	703
Kistna	..	..	..	..	..	..	..	..	..	..	2	(a) 363
Kurnool	..	..	..	..	1	8,025	1	8,025	9	12,866	10	20,891
Bellary	..	..	..	..	..	..	..	..	4	320	7	11,145
Anantapur	..	..	..	..	..	..	..	..	8	752	8	(a) 752
Total, Northern Circle	2	2,400	1	160	3	8,140	6	10,700	48	15,733	95	40,452
Central Circle.												
Cuddapah	..	..	..	..	1	20	1	20	67	31,484	71	32,324
Nellore	..	..	..	..	..	..	..	..	..	..	3	1,120
Chingleput	..	..	..	..	..	..	..	..	..	..	..	..
North Arcot	9	400	2	60	5	168	16	628	46	3,110	98	6,875
South Arcot	22	4,285	..	..	1	3	23	4,288	10	453	39	(c) 5,735
Salem	1	20	..	..	4	90	5	110	21	3,617	32	(a) 3,943
Trichinopoly	..	..	..	..	..	..	..	..	..	..	1	(a) 5
Tanjore	..	..	..	..	..	..	..	..	1	50	1	(b) 50
Total, Central Circle	32	4,705	2	60	11	281	45	5,046	145	38,714	245	50,052
Southern Circle.												
South Canara	5	533	7	989	..	..	12	1,522	76	4,556	123	(a) 10,930
North Malabar	..	..	..	..	..	..	..	..	..	..	5	(a) 12,832
South Malabar	..	..	..	..	..	..	..	..	1	15	4	105
The Nilgiris	2	35	..	..	9	2,208	11	2,243	1	4	19	(a) 2,282
North Coimbatore	..	..	..	..	..	..	..	..	1	740	1	(a) 740
South Coimbatore	1	100	..	..	1	13	2	113	3	317	25	12,579
Madura	13	1,082	3	50	7	3,160	23	4,292	10	3,050	56	(c) 13,418
Tinnevelly	8	7,447	1	6	3	1,197	12	8,650	18	4,215	53	15,738
Total, Southern Circle	29	9,197	11	1,045	20	6,578	60	16,820	110	12,897	286	68,624
Total, Presidency	63	16,302	14	1,265	34	14,999	111	32,566	303	67,344	626	159,128

(a) The Collector has not explained the variation between these figures and those entered in Form No. 51.
(b) No fires are reported to have occurred in the Tanjore district (*vide* Form No. 51). The discrepancy has not been explained.
(c) Includes fires which enetred from outside whether over special fire lines or merely ordinary boundary lines. Hence the variation between this figure and that entered in Form No. 51.

(2) FOREST FIRES AND FIRE-PROTECTION.

25. The results of fire-protection during the year are compared with those of the preceding year in the following statement:—

Circles.	During 1898-99.			During 1899-00.		
	Area attempted in square miles.	Percentage of area attempted which escaped fire.	Average cost per square mile.	Area attempted in square miles.	Percentage of area attempted which escaped fire.	Average cost per square mile.
			Rs. A. P.			Rs. A. P.
Northern	963	95·1	10 10 9	953	93·8	9 6 2
Central	2,416	98·9	5 3 8	2,446	96·9	5 15 9
Southern	1,747	93·6	6 10 4	1,737	91·4	7 3 5
Total ..	5,126	96·3	6 11 9	5,136	94·5	7 0 6

The area attempted to be protected in the Central Circle and in the Presidency as a whole was larger than in the previous year by 30 and 10 square miles, respectively, and less by 10 square miles in the Northern and Southern Circles. The total cost was higher by Rs. 1,582, the amount expended being Rs. 36,114 against Rs. 34,532 in the previous year. The cost rate per square mile showed a slight advance in the Central and Southern Circles as well as for the Presidency but was less in the Northern Circle. Taking the districts individually, fire-protective measures were adopted over the same extent in *Gódávari*, *Kurnool*, *Cuddapah*, *Nellore*, *Trichinopoly* and *North Coimbatore* and over a smaller area in *Ganjám*, *Kistna*, *Chingleput* and *Madura*. In the other districts the area attempted was larger than in the previous year. In the Northern Circle arrangements for fire-protection of a rigid type are being set forth in the working-plans and the extent under protection will not be increased until the forests are worked systematically. In *South Arcot*, *Salem* and *Trichinopoly* in the Central Circle, *Madura* in the Southern Circle and in all the districts in the Northern Circle except *Kistna*, the amount expended on fire-protection was less than in the preceding year, but this decrease was more than compensated by the increase in the other districts, notably in *Chingleput*, *Cuddapah*, *Nellore*, *North Arcot*, *the Nilgiris* and *Tinnevelly*. In *North Arcot*, fire patrols were employed for a longer period, while in *Chingleput* a larger number was entertained. Rupees 669 are given by the Collector as the amount spent in *Nellore*, while according to the audited figures of the Accountant-General it was Rs. 1,183 and the variation has not been explained. The increase in the *Nilgiris* was due to the special and rather expensive protection afforded to the sandalwood areas in the Sigur range to improve the natural reproduction from seedlings. Larger expenditure was incurred in *Tinnevelly* on account of the heavy growth on the lines fire traced.

26. The percentage of the area burnt to the area attempted in each district in the past two years is compared in the following abstract:—

Northern Circle.			Central Circle.			Southern Circle.		
Districts.	Percentage of fires to area attempted		Districts.	Percentage of fires to area attempted		Districts.	Percentage of fires to area attempted	
	In 1898-99.	In 1899-00.		In 1898-99.	In 1899-00.		In 1898-99.	In 1899-00.
Ganjám ..	2·9	2·2	Cuddapah ..	3·2	8·07	South Canara ..	1·3	11·6
Vizagapatam ..	5·5	0·8	Nellore ..	..	0·9	North Malabar ..	82·1	69·4
Gódávari ..	6·4	0·5	Chingleput ..	..	..	South do. ..	0·005	0·1
Kistna ..	0·3	0·5	North Arcot ..	0·4	0·9	The Nilgiris ..	0·5	2·5
Kurnool ..	10·8	32·4	South do. ..	0·1	5·06	North Coimbatore.	0·6	10·3
Bellary ..	4·9	22·9	Salem ..	0·1	1·3	South do.	0·09	2·9
Anantapur ..	4·8	1·03	Trichinopoly ..	0·05	0·5	Madura ..	0·3	1·5
			Tanjore ..	..	..	Tinnevelly ..	2·4	6·5
	4·9	6·2		1·1	3·1		6·4	8·6

The year was very unfavourable for fire-protection. The exceptionally dry weather made the forests highly inflammable and incendiarism was generally the cause of the fires. In many cases the graziers were the chief offenders, their object being to get new grass. In *Gódávari*, *Anantapur* and *North Malabar* the results of fire-protection as compared with those of the previous year were satisfactory. In the other districts they were worse and notably so in *Kurnool*, *Bellary*, *Cuddapah*, *South Arcot*, *South Canara*, *North Coimbatore* and *Tinnevelly*. In *Ganjám*, fires began very early and 51 fires were reported, but later on the heavy showers that fell brought better results. In *Vizagapatam* there is no regular record of fire-protection and many fires which occur in the Agency hills are not reported, the staff of 33 fire patrols entertained for the district being too small for the work. Form No. 51 shows only 683 acres as having been burnt, while the area is estimated by the Collector as 17,840 acres in his district report. It is reported that the Chenchus prevent successful fire conservancy in the Nallamalais. In one case an individual was sentenced to one month's imprisonment for firing the Bairluti block, but the day after he was released the block was again on fire. In *Bellary*, two fires entered the Donimalai and the North-east ranges from outside before the lines were thoroughly cleared. The damage done was not great, but it is feared that a number of seedlings must have been killed or burnt down. The three fires in *Nellore* which burnt 1,200 acres are reported to have been caused by accident. In *North Arcot*, there were 98 fires which burnt 6,874 acres. Twenty-six came from outside and nine were caused by graziers to obtain new grass. In 17 other cases the fires were the result of carelesness or accident and in the rest the causes were not known. Blocks have been closed to grazing in all places where there were numerous incendiary fires. Altogether 7,926 acres were burnt in *South Canara*, the worst fires being in the Dharmastala-Mundaji and Chinkramale blocks. The percentage of fires in *North Malabar* still stands abnormally high. Rigid protection was, as usual, confined to special areas in the Kurchyat and Begur reserved forests and the plantations and compounds, which were successfully protected during the year with the exception of 32 acres of plantations, 2 acres in Begur and 30 at Chedaleth which were run over by fires from outside. The remaining areas of deciduous forest were all burnt. In the *Nilgiris* fires were caused by jungle-men in the Mudumalai and Sigur ranges. It was not possible to detect the offenders in the Coonoor and Ootacamund ranges where 135 lots of fuel were lost. The Hassanur sandalwood area in *North Coimbatore* was set fire to wilfully and 740 acres were burnt. The high wind and the faulty line cutting by the forester helped the offender. There were in all 25 fires in *South Coimbatore*, 15 in specially protected and 10 in unprotected areas, which burnt 10,395 acres and 2,184 acres, respectively. It is unfortunate that there should have been fires again in the Tekadi leased forests: two out of the eight fires that ran over it were very serious and lasted for two days in spite of all endeavours to put them out. An extent of 7,760 acres was burnt over by these two fires. The dead trees and grass were burnt and much mischief was done to the living trees and young growth.

27. The reports from most districts contain little information as to the recording of the results of fire-protection on maps or as to the extent of the damage done to the forests.

(3) Regulation of grazing and protection from cattle.

28. Owing to short rainfall, the free cutting and removal of grass was permitted and availed of in all the districts of the Northern Circle except *Ganjám* and *Vizagapatam* and in *Cuddapah*, *Nellore*, *North Arcot* and *Salem* in the Central Circle. It was also found necessary to throw open to free grazing all the forests except the specially fire-protected blocks, in *Cuddapah* from February and in *Kurnool* from April last, and also some areas in *Kistna* and *Nellore*. In granting the concession the Collectors of the last mentioned two districts appear to have acted on their own responsibility without obtaining the prior sanction of the Board. In *Gódávari*, grazing in the Coringa reserve was leased out as usual, and in *North Malabar* the lease granted to Mr. McDonald allowing him to graze not more than 900 cattle on a fixed payment of Rs. 100 per annum was also continued. In *Kistna*, the issue of permits for local cattle was entrusted to the village munsifs instead of to poorly paid grazing supervisors as heretofore, while permits for foreign cattle were issued by range officers and special rangers. The system is reported to be a success. One permit for all the reserves

included in one working-circle was issued during the year in *Kurnool* instead of a single permit for each reserve as in the previous year, the latter system having given rise to many complaints.

The areas open and closed to grazing and the number and kind of animals grazed free or on payment of fees in each district are shown in Forms Nos. 52 and 53. One thousand three hundred and ninety-six square miles were closed to all animals throughout the year and 570 square miles for only a portion of the year as against 1,824 and 132 square miles, respectively, in the previous year. The area closed throughout the year decreased largely in the Northern and Southern Circles, but increased in the Central Circle. The fall in the Northern Circle occurred in *Kistna* and *Bellary*, and the reduction was found necessary, owing to the bad season. In *North Coimbatore* also the area closed was less. There were, however, several complaints against the closure of a large portion of the Doddasampagai reserve, and the question of opening an additional extent is engaging the attention of the Collector. Two hundred and sixty-five square miles remained closed till the end of March in *South Coimbatore*, but 245 square miles of this area were opened during the rest of the year, as strict closure was not considered to be called for throughout such a large area. In *North Arcot* and *Tinnevelly*, some of the grazing compartments open during the previous year had to be closed on account of incendiary fires. Both goats and sheep continued to be excluded from all the reserved forests and reserved lands in *Vizagapatam* (354 square miles) and in *North Coimbatore* from 14 square miles against five in the previous year. The entire forest area in *South Malabar* is shown as closed to all animals, but there is no demand for grazing in the district. As in the previous year, permits were not issued for sheep in *South Canara* and *North Malabar*. The area closed to goats only was larger than in the previous year, as also that open to all animals. The increase in the area open was only nominal and was contributed chiefly by *North Malabar*, where 220 square miles against none in the previous year are shown as open, although there is not much demand for grazing in the district. Goats were entirely excluded in *Ganjám* and *Anantapur* in the Northern Circle, in *North Arcot*, *South Arcot* and *Trichinopoly* in the Central Circle, and, as usual, in all the districts of the *Southern Circle*. In *Vizagapatam* 1·2 square miles were opened to goats in the Golconda range for three or four months as an experimental measure, but the goat owners did not evince much desire to take out permits. The area has been temporarily closed pending the preparation of a working-plan for the reserve. In *Gódávari*, permits were issued to goats for the first time in the Ellore range, and a sum of Rs. 102 was realized. It is proposed to open additional areas during the current year in the Peddápuram range. In *Kistna*, *Kurnool*, *Cuddapah*, *Nellore* and *Chingleput* larger provision was made, but in the first mentioned district the area open still appears to be insufficient, and the subject will receive the attention of the Collector. In *Bellary* 265 square miles were closed to goats against 150 square miles in the previous year; the number of these animals admitted under licenses in each year was nevertheless 70,443 and 27,528, respectively. It is therefore proposed to set apart specially selected areas in this district and also in *Anantapur*, where such a step is reported to be needed. Provision for goat-browsing in *Madura* has been made in the recently sanctioned working-plans for the Kanavoipatti and Palamedu ranges. The closure of even the 12 square miles open during the last year in *North Arcot* has possibly caused the greater number of goats impounded in the district, but a scheme for goat-browsing is reported to be completed and awaiting submission to the Board. The following statement compares the number of animals impounded for illicit grazing in each district during the past two years. The total number of all classes of animals impounded was 377,555 against 346,461 in the previous year; the increase being noticeable in *Kurnool*, *Anantapur*, *Cuddapah*, *North Arcot* and *Salem*. The number of "cattle" impounded increased largely in *Gódávari*, *Kurnool* and *Anantapur* in the Northern Circle and in all the districts of the Central Circle except *South Arcot* and *Trichinopoly*. In *North Arcot* the number rose from 7,504 to 17,223. In *Kistna*, *Anantapur*, *Trichinopoly* and *Madura* the number of goats impounded were over 5,000 and less than 10,000. The largest number of these animals impounded was in *North Arcot* (40,549); *Cuddapah* came next with 31,988, followed by *Nellore* (26,390), *South Arcot* (22,183), *Salem* (20,091) and *Kurnool* (17,879).

Comparative Statement of Animals impounded for illicit grazing in Reserved Forests and Reserved Lands during 1898–99 and 1899–1900.

	Without permits.								In closed areas.							
	Cattle.		Sheep.		Goats.		Total of all animals.		Cattle.		Sheep.		Goats.		Total of all animals.	
	1898–99.	1899–1900.	1898–99.	1899–1900.	1898–99.	1899–1900.	1898–99.	1899–1900.	1898–99.	1899–1900.	1898–99.	1899–1900.	1898–99.	1899–1900.	1898–99.	1899–1900.
Northern Circle.																
Ganjám	951	182	..	11	3,708	1,020	4,659	1,213	345	..	..	..	3,708	1,020	4,053	1,020
Vizagapatam	1,735	1,308	741	224	2,941	2,245	5,417	3,777	..	19	..	..	..	13	..	32
Gódávari	1,859	2,613	517	622	2,647	1,660	5,023	4,895	..	8	..	1	2,647	920	2,647	929
Kistna	8,162	4,070	2,836	3,749	11,708	9,425	22,706	17,244	4,672	3,793	970	1,599	3,417	5,855	9,059	11,247
Kurnool	8,564	10,052	5,123 / 8,863	7,708	7,616	11,714 / * 6,165	30,166	35,639	333	278	214	300	177	192	724	770
Bellary	2,198	1,380	1,415	1,720	3,965	3,416	7,578	6,516	782	89	864	..	1,079	131	2,725	220
Anantapur	2,997	5,238	6,414	8,102	10,161	9,175	19,572	22,515	230	804	286	550	426	572	942	1,926
Total, Northern Circle ..	26,466	24,843	25,909	22,136	42,746	44,820	95,121	91,799	6,362	4,991	2,334	2,450	11,454	8,703	20,150	16,144
Central Circle.																
Cuddapah	5,426	5,936	9,423	12,749	22,721	31,988	37,570	50,673	84	82	189	220	703	65	976	367
Nellore	†..	4,319	†..	7,011	†..	26,390	†..	37,720	†..	206	†..	3	†..	20,340	†..	20,549
Chingleput	1,464	1,935	1,597	460	6,193	4,471	9,254	6,866	113	157	..	..	5,073	4,416	5,186	4,573
North Arcot	7,504	17,223	6,509	8,495	32,659	40,549	46,672	66,267	764	694	659	..	2,489	817	3,912	1,511
South Arcot	15,799	13,080	22,692	16,070	35,436	22,183	73,927	51,333	1,060	234	141	..	250	24	1,451	258
Salem	4,961	8,302	3,893	4,131	18,895	20,091	27,749	32,524	3,816	2,468	549	380	11,234	5,433	15,599	8,281
Trichinopoly	3,483	2,450	8,920	5,865	4,317	5,234	16,720	13,549	..	..	..	..	..	..	..	..
Tanjore	140	1,036	336	333	317	712	793	2,081	12	265	35	13	15	108	62	384
Total, Central Circle ..	38,777	54,281	53,370	55,114	120,538	151,618	212,685	261,013	5,849	4,104	1,573	616	19,764	31,203	27,186	35,923
Southern Circle.																
South Canara	1,077	1,424	..	..	10	21	1,087	1,445	410	106	..	..	10	..	420	106
North Malabar	71	26	..	..	..	..	71	26	2	1	..	..	..	..	2	1
South Malabar	..	..	..	..	..	..	..	..	10	..	6	..	..	..	16	..
The Nilgiris	38	288	129	27	45	119	212	434	20	220	..	16	..	12	20	248
North Coimbatore ..	2,955	2,099	3,603	1,728	4,596	2,691	11,154	6,518	1,355	298	936	..	431	..	2,722	298
South Coimbatore ..	1,121	1,337	232	85	1,163	1,054	2,516	2,476	368	530	211	55	450	154	1,029	739
Madura	4,533	3,445	3,047	1,632	13,972	5,845	21,552	10,922	..	..	..	..	..	5,845	..	5,845
Tinnevelly	657	1,121	71	852	1,335	1,019	2,063	2,992	2,172	965	751	808	1,335	1,019	4,258	2,792
Total, Southern Circle ..	10,452	9,740	7,082	4,324	21,121	10,749	38,655	24,743	4,337	2,120	1,904	879	2,226	7,030	8,467	10,029
Grand Total, Presidency.	75,695	87,899	86,361	80,766	184,405	207,187	346,461	377,555	16,548	11,215	5,811	3,945	33,444	46,936	55,803	62,096

* This represents the total number of goats and sheep impounded in the Pattikonda range. Details are not available.

† Information was not available in the previous year.

29. The following abstract shows the number of cattle, sheep and goats admitted under licenses during the year :—

—	Buffaloes.	Bulls and cows.	Sheep.	Goats.	Other animals.
Northern Circle	103,380	385,012	639,918	70,987	546
Central Circle	25,574	611,241	609,458	93,816	40
Southern Circle	21,384	293,836	69,886	..	4
Total ..	150,338	1,290,969	1,319,262	164,803	590
1898-99 ..	116,302	1,264,646	1,046,221	172,543	402

The number of animals admitted was larger for the Presidency, and the increase was contributed by all the districts except *Cuddapah*, *Chingleput*, *North Arcot*, *South Arcot*, *North Malabar* and *Tinnevelly*, where the number decreased. In *Kistna* and *Kurnool* information as to the number of goats admitted under licenses has not been separately reported. In *Kurnool* there was a decrease in the number of cattle admitted but permits for a larger number of sheep and goats were issued.

(c) *Improvement of Forest growth.*

(1) Natural Reproduction.

30. Natural reproduction was to some extent retarded by the drought, as not only do seedlings die off naturally but many are killed out by the excessive strain on some forests for fodder and grazing :—

Northern Circle.

Reproduction of sâl in *Ganjám* continued excellent. Flowering and seeding of other timber species was also good. Reproduction from the preceding year's seeding of *Bambusa arundinacea* was luxuriant. In *Vizagapatam*, *Terminalia belirica* on the Gudem hills and the Teak planted in Garugapalli tope seeded profusely and the seedlings were healthy. The flowering of sâl in Palkonda was scanty and reproduction from seed was not good. Bamboo growth in Palkonda was poor owing to failure of rains. The unfavourable character of the season interfered with natural reproduction in *Gódávari* and *Kistna*. In the latter district the coppice growth in the felled coupes of the Guntur Babul Working Circle was excellent, while reproduction from seed was not satisfactory. Of the valuable species *Chloroxylon swietenia* withstood the drought. In *Kurnool*, *Bellary* and *Anantapur* the year was unfavourable to natural reproduction owing to the failure of the monsoon. The regrowth was, however, fair in the areas under special protection and closed to grazing. In the Ramandrug range, *Bellary district*, there was a fair growth of *Tectona grandis*, *Terminalia tomentosa*, *Pterocarpus marsupium*, *Sandal* and *Anogeissus latifolia*. Seedlings of *Hardwickia* were noticeable in parts of the Malapanagudi block in *Bellary* and of Kottakota in *Anantapur*.

Central Circle.

In *Cuddapah* the year was a bad one for reproduction both from seed and coppice owing to the drought. Regeneration from seed and coppice was satisfactory in *Nellore*. In *Chingleput* reproduction from coppice continued to be satisfactory, but that from seed was particularly good in specially protected areas. Seedlings of *Azadirachta Indica*, *Pterocarpus santalinus*, *Melia Indica*, *Engenia Jambolona* and bamboos were most noticeable. In *North Arcot* reproduction was generally poor except in areas specially protected and closed to grazing. In *South Arcot* the growth of seedlings of all sorts was encouraging. Collection of data in connection with the growth of coppice shoots was continued in the Tiruvannámalai reserved forest. The important species except *Albizzia amara* are reported to attain the same height during their early ages. The average heights reached by the former at ages 5, 6 and 7 were 14 feet, 16 feet and 16 feet 7 inches, while those of *Albizzia amara* were 9′–7″, 11′–4″ and 11′–8″, respectively. As regards girth *Butea frondosa* was observed to grow prominently. Its girth at different ages was recorded to be as follows :—

	Maximum girth.	Average girth.
At age 5	17·5″	13·4″
Do. 6	18·25″	14·14″
Do. 7	18·75″	16·12″

The average girth of the other species was 7·58". In *Salem* reproduction from coppice in coupes continued to be satisfactory. Seedlings of satinwood in many of the coupes recently felled at the foot of the Shevaroy hills were also full of promise. Reproduction from sandalwood seeds in the same coupes was however wanting, owing probably to their having been thrown open to grazing on account of the scarcity of fodder. In *Trichinopoly* regeneration from seed and coppice continued to be good, the chief species being *Inga dulcis*, *Acacia arabica*, *Cassia florida*, *Chloroxylon swietenia*, *Mimusops hexandra*, *Albizzia amara* and *Acacia planifrons*. *Memecylon edule* (Casan) coppiced extremely well in the felled coupes of the Udayárpálaiyam range. The dry sandy nature of the soil in *Tanjore* was not favourable to natural reproduction from seed.

Southern Circle.

In *South Canara*, the coppice growth in coupes worked for the supply of firewood in Coondapoor was excellent. Reproduction from seed was poor owing to the peculiarity of the soil and the undulating nature of the surface from which seeds are carried away by the heavy rainfall. In *South Malabar* the coppice growth in Walayar was good and a fair number of seedlings of *Lagerstræmia*, *Xylia*, *Pterocarpus marsupium* and *Hopea* were found in the Chenatnair reserve. In the natural forests of the Nilambur range there was a fine show of seedlings of *Xylia*. The growth of seedlings of *Terminalia paniculata*, *Lagerstræmia*, *Tectona grandis* and *Terminalia tomentosa* in the Karimpoya and Nettekutti reserves of the Amarampalam range was excellent. In the *Niligirs* coppice growth in the Blue-gum plantations was good. In the Sigur range regeneration of sandalwood was fair, while in the Mudumalai range seedlings of valuable species such as Teak, Vengai and Blackwood were promising in areas under special protection and closed to grazing. There was an excellent growth of seedlings of *Terminalia Chebula* in Kollegal and Satyamangalam ranges in *North Coimbatore Division* and a fair growth of Vengai in parts. A heavy seeding of *Shorea laccifera* and satinwood took place near Gairmalam in May. In *South Coimbatore* the coppice growth in the Aiyarangal coupes was excellent. Regeneration from seed on the outer slopes of the Anamalais and in the felling compartments of the leased forest was remarkable. In the evergreen forests of *Madura* reproduction was excellent. *Albizzia amara* continued to coppice well. Regeneration from seed in the deciduous forests containing timber was poor. In *Tinnevelly* coppice growth was fair in the coupes and there was a fair sprinkling of seedlings from standards. Teak, Vengai and *Anogeissus* grew well from seed. The growth of *Hopea* and *Mesua* in the ever green forests was good.

(2) Artificial Reproduction, Plantation and Cultural Operations.

31. The area under plantations, topes and cultural operations, together with the cost incurred thereon during the year under report, is given in Form No. 54.

The following is a summary of the year's work:—

Northern Circle.

The Agusti Nowgam plantation in *Ganjám* was, on the whole, doing well, and was maintained at a cost of Rs. 241 as against Rs. 940 in the previous year. The decrease in expenditure was due to the little watering that was found necessary on account of the heavy rains during the hot weather. Some teak seeds were sown in the Napier and Chatrapur reserves as also in the Surada, Majjagoda and Kukkuluba ranges. They sprung up fairly well in both the reserves and in the first two ranges, but the operation was a complete failure in the third. In *Vizagapatam* the seedlings of *Acacia sundra*, *Pongamia glabra*, *Cassia fistula*, tamarind and other varieties which were coming up well in the Narsapatam range nursery last year have all perished for want of rain after transplantation in the coupes. Karakai seeds sown in the coupes shared a similar fate. The few teak seedlings were, however, flourishing. The dates in the Sarvasiddhi plantation survived a trying year, while in Palkonda a number of jack plants were put out in Chinna Mangalapuram tope most of which died. In the *Gódávari* district 76 acres were planted up during the year in the Bandamurlanka and the Kandikuppa casuarina plantations. In *Kistna* 30 acres in the Gopuvanipalem reserve were planted with casuarina and the plants of 1896–97 and subsequent years were watered at a cost of Rs. 544. Those of the later planting perished for want of rain. The work was consequently confined to keeping alive the plants of the 12 acres of early planting which appeared to have struck root. No fresh planting was undertaken in the Bápatla taluk. The nursery in the Weld reserve was maintained and seedlings of casuarina raised, but owing to the drought that prevailed little transplanting was done. In *Bellary* the plantations and cultural operations, though taken on hand with care and in the proper season, were not a complete success owing to short rainfall. The Kuppugal plantation was planted with mixed species, but the seedlings died off in large numbers, notwithstanding the fact that they had been watered. The operations carried on in the Tungabhadra plantations were also unsuccessful. The work in the Tornagal plantation was confined to the filling up of the blanks in the previous years' plantations. About 750 pits were thus replanted with *Albizzia Lebbek*, *&c.*, a large number of which survived. The bamboo slips planted in 1898 having died off they were replaced by 230 suckers, of which 75 per cent. were doing fairly well. Sowings

of dates in furrows were tried in some of the reserves, but in one reserve they were damaged by wild pigs and were a failure in others on account of the drought. The work in *Anantapur* consisted in the sowing of date seeds in furrows over 4 acres in Anantapur reserve, 15 acres in the Kajjepalle reserve, 18 acres in Ratnagiri reserve, 6 acres in Kekathi reserve and 7 acres in Upparapalli reserve. The operations generally proved a failure for want of rain, except in parts of Kekathi and Upparapalli reserves, where the seedlings in low beds and along the stream were doing well. Babul seeds were sown in 25 acres in the Illur reserve and in 11 acres in the Pamidi reserve, but the operation was a failure owing to want of rain.

Central Circle.

In *Cuddapah* artificial reproduction from seed and seedlings proved unsuccessful owing to the drought that prevailed. There was a slight addition of 15 acres to the plantations during the year in *Nellore*. Much of the replanting in the district though done late in November was successful in all cases. There was a noticeable addition of eight topes aggregating 162 acres to the area of plantations in *Chingleput*. In selected portions of the reserves in the Tiruvallur range, seeds of different species were sown three to four feet apart in furrows, but the operation was not attended with any degree of success owing to scanty rainfall. In *North Arcot* the planting of casuarina trees in the plantations was discontinued and cultural operations were limited to certain selected areas. No fresh red sanders seedlings were sown in the Chittoor range. There were heavy casualties in the existing trees of the species in Chittoor and Chase's Hill reserves. The casualties were severe also among casuarina trees owing to the unfavourable character of the season. The sowings in patches carried on during the year in the Mudivaripalle and Nagamangalam topes were not altogether satisfactory. Most of the existing young plants in Palamadi, Ambur and Kylasagiri reserves perished, while there was a considerable number of casualties among the young casuarina plants in Tiruvallam and Amandi plantations put out in 1896-97. In *South Arcot* no areas in reserved forests were leased out during the year under report for cultivation of cashew (*Anocardium accidentale*). Of the existing plants the younger were vigorous, but those of 10 to 15 years showed signs of decadence. In *Salem*, seeds of *Eucalyptus marginata* and *Eucalyptus gomphocephala* were sown in nurseries in the Shevaroys and Chitteri hills towards the close of the year and some of the seedlings are reported to have grown about 2 inches high. In *Trichinopoly* cashew and tamarind seeds were sown in the Irur and Naranamangalam reserves in the Perambalur range and the seedlings were thriving well. In *Tanjore*, an area of 52 acres was planted up with casuarina in the Tirumalaivasal plantation at a cost of Rs. 464. There were 8,812 casualties in the plantation, but the remaining plants were doing well. The plantations of the previous years were also maintained.

Southern Circle.

In *South Canara*, it was intended to disafforest the Ullal Honne and casuarina plantation in the Mangalore range as its situation is exposed to the sea and much of it was washed away by it. No extension was made to the Tannirbhavi casuarina plantation and the question of doing so was postponed for consideration till the next visit of the Conservator to the district. 37,000 and 10,613 teak seedlings were sown in the Aletti and Adur blocks, of which 9,052 in the former and 6,053 in the latter survived. The heavy casualties are reported to be due to the prolonged drought. Some teak seeds were sown in February last in nurseries and the seedlings are reported to be doing well. The plantations of teak, blackwood (*Dalbergia*) and vengai (*Pterocarpus*) in small areas in several ranges in *North Malabar* continued to do fairly well, some of the teak trees growing 17 to 30 feet high. In the Advankannu reserve of the Manantoddy range 6 acres were planted with *Grevillea* in 1898, and though a good many died out the surviving few were growing well. The vacancies were filled up in 1899 and an additional area of 6 acres was planted with the same species, but the plants showed signs of decadence owing to the unfavourable character of the season. The two jack plantations in the Kanoth reserve did not prove a success. In *South Malabar*, 80 acres in the Amarampalam range cleared for planting in the previous year were planted up with teak seedlings, 6 feet apart, and an additional area of 125 acres was also cleared for the purpose. In the Nilambur range *Swietenia macrophylla* was planted with success in places where teak failed. An attempt made to raise the indigenous bamboo from seed in the old Amarampalem reserve was successful and the seedlings will be planted out on the river banks. Five thousand six hundred casualties were replaced in the Ramalore plantation. In the *Nilgiris* 12 acres of land were cleared by the Kurumbers for shifting cultivation and the area was planted with teak seedlings from the nurseries, many of which, however, perished owing to want of timely rain. The attempt to grow mahogany in the Mudumalai and Benne forests was again a complete failure, and the experiment was abandoned once for all, as the soil and climate seem to be thoroughly uncongenial to its growth. The plants in the Kallar nursery were more promising, and those in the Benhope nursery also flourished well. In *North Coimbatore* the restocking of some of the reserves in the Erode range was continued, but was not successful during the year on account of the scanty rainfall. The attempt to raise bamboos from rhizomes in the Vellodu reserve, Erode taluk, was being continued, notwithstanding the fact that it was a failure during last year. In *South Coimbatore* it is proposed to abandon the topes except the Avanashi palmyra tope, which has since been constituted into a reserved forest. The ceara rubber plants put out in four small plots

were thriving well and grew 4 to 9 feet high. The cultural operations in the division consisted of the dibbling of seeds, and the operation was attended with poor results. The growth in one of the two teak plantations in *Madura* was decidedly good, pointing to the fact that the particular locality is admirably adapted for teak growth while the growth in the other was unsatisfactory, the ground being swampy and badly drained. In *Tinnevelly* no regular plantations were maintained. The cocoanut plantation raised in the Courtallam-Bangalow compound flourished well.

(3) Early thinnings; (4) other operations for the improvement of the growing stock.

32. In *Ganjám* creeper-cutting was carried out over 4,000 acres in two reserves at a total cost of Rs. 254, while in *Gódávari* the work was done departmentally. The operations in *Anantapur* were confined to the removal of prickly-pear from portions of two reserves, and in *Cuddapah* and *Tanjore* to the cutting of creepers. In *North Arcot* the self-sown seedlings of sandalwood in the Nagamangalam and Mudivaripalle topes were slightly thinned out. The dead and suppressed casuarina trees in Tiruvalam and Kilminnel plantations were also cut and sold to the Central Jail at Vellore at a net profit of Rs. 3–9–6 per ton. In *Salem* trees which were hollow, crooked and useless, were removed with a view to improve the growing stock. In *South Canara* thinning operations were conducted over 72 acres in two different reserves to free the *Hopea Parviflora* from being suppressed. Large areas were also cleared of creepers. In *North Malabar* the plantations were weeded and the thinning operations continued in the Kurichiyat reserve. The ground was dug to encourage reproduction, and there was not sufficient time within the year to judge of the result of the operation. In *South Malabar* thinnings were carried on over 670 acres of teak plantations in accordance with the working-plan. Other operations, such as weeding, parasite-clearing and pruning were also carried out. In *North Coimbatore* stumps, roots, dead and dying and mature sandalwood trees were extracted from certain coupes: 8,549 trees were felled and yielded 4,845 maunds. Thinnings of bamboos were carried on in *South Coimbatore* on contract in eight coupes of the Sholakarai working circle, the contractor leaving ten bamboos standing in each clump. There was also the work of cutting of creepers and clearing of weeds in 40 acres of the Aiyarangal working circle and 109 acres of the Chinnar working circle.

(5) Experiments.

33. Experiments with exotics were continued during the year. An account of the various kinds tried and of the progress made is given below :—

African seeds.—In *South Malabar* these plants were not thriving well and only 22 survived as against 28 during the previous year.

Agave ixtyle (Sissal hemp).—Five hundred and ninety-four plants were planted in October last in several places in *North Arcot*. Of the 200 plants put out in the Vellore Central jail compound 130 survived. Those put out departmentally were thriving well except a few in the Palmaner range where the soil selected was not congenial to its growth.

Apple seeds.—The seeds sown on the northern slopes of Kanavoy hills in Bolampatti reserve No. III died though all of them germinated. The failure is stated to be due among other causes to the rocky nature of the soil and to want of care on the part of the subordinates in watering them.

Bamboos.—In two different localities in the Puttur range, *South Canara District*, they were out-topped and did not do well. Experiments were conducted in certain ranges to test the best season for felling. *Arundinaria Brandisii* planted in Ayaravallikava in *South Malabar* continued to flourish, the largest clump being 21½ inches in circumference against 21 last year. Of the five clumps of *Bambusa vulgaris* (yellow bamboo) planted in 1879, only one continued to flourish, while others were slow in growth. Fourteen plants of this species were raised from *nodes* and should be planted out.

Ceara rubber.—Of the 111 trees left in the Napier's Park in *Ganjám* at the close of the year, two trees flowered and seeded. The trees of this species were to be found almost everywhere in *South Arcot* and were undoubtedly a success. Those in *South Malabar Division* were tapped and 8 lb. of rubber collected and sent to the Reporter on Economic Products to the Government of India, Calcutta. The ceara rubber plants put out in certain reserved forests in *South Coimbatore Division* were doing well. They range between 7 and 9 feet in height and were throwing out side branches.

Date.—Seeds were not sown in *Kistna* owing to the adverse season. These seeds did not germinate in *Bellary*. The soil of *North Arcot* was not congenial for their development.

Dillenia Indica.—Of the 73 plants in Pollachi range alluded to in the previous year's report, only two survived, the rest having perished probably owing to prolonged drought and to want of care on the part of the subordinates.

Divi divi.—Experiments were tried in *Ganjám* with the result that the seedlings were awaiting rain for transplantation. The trees of this species were thriving well in *South Arcot.*

Eucalyptus.—The plants in Mudivaripalle, &c., topes in *North Arcot District* were not promising. They were 20 years old but were stunted for their age. Seeds were sown in nurseries on the Shevaroys and Chitteris in *Salem* towards the end of the year and the seedlings were 2 inches high. The trees of the different species of Eucalyptus in the *Nilgiris* were, on the whole, doing well.

Mahogany.—Only three plants were left in the Napier's Park in *Ganjám.* Fresh seeds were sown in open beds and in pots, but none germinated. None of the seeds sown in the Papikonda reserve in *Gódávari* germinated, probably because they were too stale. More were being sown. Mahogany was subject to attacks from insect pests in *Kistna* and the few plants that came up and looked healthy were destroyed by grasshoppers. Of the young plants at Gazulapalli in *Kurnool*, only one was living having grown 5 feet high, while at Atmakúru two remained. These plants were, however, unhealthy. Of the plants put out in Balapalli nursery in *Cuddapah*, only 76 survived. There were two casualties among the trees which existed in the Chittoor reserve in *North Arcot.* The only remaining plant in Mudivaripalli tope was alive and exhibited symptoms of fair growth, while those in Ambur and Palmadi plantation were all doing well. The growth of mahogany seedlings in *South Canara* was much impeded by the attacks of the Erya caterpillar. Not one of the seeds tried in three ranges in the district germinated, apparently because they were stale. Those planted in Airavalakava and Panangod plantations in *South Malabar* were doing well and were from 14 to 19 years old, while others were showing signs of drying up. The big show tree of the *macrophylla* species in Chathamborai measured 89 feet 4 inches in height and 78 inches in girth against 88 feet 3 inches in height and 76 inches in girth, and is now 28 years old. Of the trees at Walayar four died; while those at Dhoni were thriving well, of which there are 74. The plants of this species in Kullar in the *Nilgiris* were doing well. In *South Coimbatore* mahogany seeds were sown in the Pollachi, Bolampatti and Udamalpet ranges with indifferent success. The plants of the *Swietenia macrophylla* species planted in front of the bathing mandapam in the Alagar Hill reserve in *Madura* were thriving well. Spasmodic experiments tried on a small scale were a failure.

Mango seeds.—These were sown at Rambha and Bodangi in *Ganjám* to provide trees to be planted in certain parts of the Maliah boundary. There were 400 healthy plants at these nurseries.

Pterocarpus marsupiam.—Seeds of this species were sown in the Papikonda reserve in *Gódávari*, but without success.

(*d*) *Exploitation of Major Forest Produce.*

(1) Clear or re-generation fellings.

34. In *Gódávari* 135 acres in the Bandamur lanka casuarina plantation were clear felled in accordance with the working-plan, most of the good trees having been previously removed to supply poles to the Public Works Department. It is proposed to plant up the area during 1900–1901. Coupe No. I of the Ungutur reserve, and blocks I and II and of Tadikalapundi reserve were also cleared in accordance with the working-plan approved by the Conservator in view to sow seeds of better classes of trees. In *Tanjore* 45 acres in the casuarina plantations were felled over by contractors, the trees being sold standing. The yield amounted to 358 tons of sized wood and 119 tons of unsized wood, and the rate realized per ton was Rs. 4–7–9 for the former and 12 annas for the latter. Trees of different kinds were also felled and removed on contract from certain unreserved areas in Kodyampalayam and Tholavapatti villages, realizing a revenue of Rs. 684. In *South Malabar* 125 acres of forest were cleared for teak planting. The contractor paid Rs. 3,000 for the timber and bamboos standing thereon.

(2) Selection Fellings.

35. The only work undertaken departmentally in *Ganjám* was the felling of sâl (*Shorea*) and holondo (*Adina cordifolia*) timber. Four thousand cubic feet of the former was supplied to the Ordnance factory in Madras and 100 sleepers of the latter to the East Coast Railway for experiment. For the same purpose 100 sleepers of different species (*Terminalia tomentosa*, *Xylia dolabriformis* and *Soymida febrifuga*) and 76 *Xylia* sleepers were also supplied to the same railway from *Vizagapatam* and

Gódávari, respectively. In *Kistna* 86 casuarina poles were cut in Bápatla for departmental use and 311 trees in the Gopuvanipalam casuarina plantation, which realized a sum of Rs. 321–8–0. The collection of valuable timbers in *Kurnool* for supply to depots was continued. Ten thousand six hundred and fifty-three cubic feet were brought to depots and 13,446 cubic feet sold realizing Rs. 9,908. The operations in *Bellary* were confined to the felling of teak poles, of which 105 were cut and sold at a net profit of Rs. 85, and in *Anantapur* to the marking of palmyra trees which were sold *in situ*. In *Chingleput* the departmental fellings consisted of babul (*Acacia arabica*) and korakkapali (*Inga dulcis*) billets for supply to the South Indian Railway. The transaction yielded a net profit of Rs. 5–3–2 per ton. In *North Arcot* timber contracts were given in certain blocks in the Javadies to meet the demands of the ryots for building materials and domestic purposes, the trees being marked before felling. Bamboos were cut departmentally for tent poles and latties required by the Ordnance and Police departments. In *Trichinopoly* selection fellings of babul (*Acacia arabica*) were carried out departmentally and the felled material consisting of 7,400 cubic feet of wood was supplied as fuel to the Central Jail. It realized a net profit of Rs. 395. In *South Canara* 315 trees were felled during the year and yielded 519 logs. Some of these were converted into sleepers and scantlings. Selection fellings in *North Malabar* yielded 116,019 cubic feet of timber. All the reserves in *South Malabar* were worked under the selection system. In the *Nilgiris* 800 trees of *Terminalia tomentosa* were felled for sleepers in Mudumalai, and 300 maunds of dead trees and roots of sandalwood were collected. In *North Coimbatore* timber and bamboos were cut departmentally to meet urgent demands. Selection fellings in *Tinnevelly* were carried on both by departmental agency and by contractors. Four hundred and fourteen trees of *Hopea* and *Balanocarpus* were felled for railway sleepers. They proved unsuitable for the purpose. In all 414 trees were felled and 128 of them were converted departmentally yielding 5,017 cubic feet of fashioned timber. A volume of 11,531 cubic feet of timber was removed by contractors from the evergreen forests, the trees being marked as usual by departmental officers and paid for by contractors at a fixed rate per cubic foot of fashioned timber.

(3) IMPROVEMENT FELLINGS, AND (4) COPPICE FELLINGS AND COPPICE WITH STANDARD FELLINGS.

36. Improvement fellings were carried on in the Northern Circle in *Ganjám* and *Kurnool*. In the former district operations were limited to 50 acres in the Kurcholi reserve and yielded 650 cart-loads of miscellaneous timber. In the latter district 500 acres of the Diguvametta block were improved by removal of 60,000 cubic feet of fuel at a cost of Rs. 1,228. The forests of certain other districts in the Circle were subjected to coppice fellings and coppice with standard fellings. In *Vizagapatam* coupes to the extent of 61 acres in the Madalammakonda and Arlova reserves were felled, and the material obtained was sold as timber, fuel and charcoal, yielding a net profit of Rupees 9–12–0 per acre. In *Gódávari*, the fellings according to working-plan were not carried out completely owing to slack demand, but the prices realized on the coupes sold varied from 5 annas to Rs. 5–8–0 per acre. It is anticipated, however, that the uncut balance will be sold during 1900–1901 together with the coupes of the year. In *Kistna*, a portion of coupe No. 5 of the Guntúr babul working-circle was felled, and the method adopted was coppice with standards. It was not possible to work the whole of the prescribed area owing to slack demand. Portions of coupe Nos. 5 and 6 of the Masulipatam mangrove working-circle and coupe No. 1 of Avanigadda circle were also felled, the material obtained being 105 tons of wood. The fellings in *Bellary* were carried out in the Sandur leased forests in accordance with the working-plan for the eastern slopes of Ramandrug. Coupes were also worked at the base of the western slopes and in Hyradi reserve. The material (fuel) extracted was transported to Bellary and there sold to the mills, the net profit excluding establishment charges being Rs. 4,273 for 2,005 tons sold or Rs. 2–2–1 per ton.

In the Central Circle 40 acres were treated under coppice with standards in the Balapalli working-circle in *Cuddapah*. The cutting was done by contractors. In the Seshachalam reserve 2,031 cubic feet of red-wood poles were felled and most of them were sold to meet local demands for building and agricultural purposes. Under a similar system a large area of coupes were worked in *Salem*, and 17 coupes aggregating

an area of 2,260 acres sold in *Chingleput*. In *North Arcot* 29 coupes comprising 5,526 acres, were either worked departmentally or sold to contractors. Twenty-five of these were worked for supply of engine fuel to the Madras Railway Company and the rest to sugarcane boilers. In *South Arcot* six coupes aggregating 81·79 acres were operated on during the year. The total yield amounted to 378 cart-loads of fuel giving an average price of Rs. 5–11–4 per acre. In *Tanjore* three coupes, comprising an area of 168 acres in the Vettangudi reserved forest, were felled over by a contractor and the price realized was Rs. 880 against Rs. 600 in the preceding year.

In the Southern Circle three blocks, comprising 200 acres, were felled over by a contractor under the system of coppice with standards. The average price realized amounted to Rs. 8–8–0 per acre. Coppice fellings in *North Coimbatore* were carried out in fuel coupes under the permit system. In *Madura*, 1,046 acres in the Palamedu and Kanavoipatti ranges were sold standing to contractors; while in the Cumbum and Kodaikánal small areas were worked departmentally.

In the Central Circle there is rather a division of opinion among District Forest-officers about the felling out of thorny growth in coppice. Mr. Brasier in *Salem* is strongly averse to cutting it on account of the extra expense and because, if left standing, it acts as a nurse to seedlings; but Mr. Peake in *South Arcot* and Mr. Stanbrough in *Chingleput* advocate cutting it for the protection afforded by hedges formed from the material. The conditions are not, however, the same, for the growth in *Salem* is far more vigorous than in the two other districts, and possibly absolute protection from grazing and browsing animals is of paramount importance in very poor tracts. Experiments are being made, however, to test whether contractors will pay an appreciably higher price for coupes if the felling of thorns is not compulsory, as the savings might be utilized towards providing permanent fencing materials.

(5) Unregulated Fellings.

37. The system of felling and removal of produce under permits continues to prevail in almost all the districts. It is confined to the removal of inferior classes of timber, fuel and bamboos required in most cases to meet local demands. It is being gradually abandoned in *Gódávari* and *Bellary* in the Northern Circle and in *North Arcot* and *Tanjore* in the Central Circle. In the Southern Circle babul trees (*Acacia arabica*) of $2\frac{1}{2}$ feet and over in girth were marked in lots of 100 and sold on permits in *Tinnevelly*. In *North Coimbatore* two coupes were opened for located bamboo fellings on permits, but the result was not satisfactory. The unregulated fellings in *North Malabar* included free grants made to poor ryots living in or near the forests and useful to the department in supplying labour when wanted, while in *South Malabar* bamboos were allowed to be removed from certain reserves by contractors for floating the timber purchased by them.

(*e*) *Extraction and Transport of Major Forest Produce by Land and Water.*

38. In *Ganjám*, a supply of timber was made to the Ordnance department, Madras, and of 100 Holondo (*Adina cordifolia*) sleepers to the East Coast Railway. The means of transport employed in both cases was by cart. In *Gódávari*, logs of timber were felled in the Bhadráchalam sub-division where transport by water is easy and of immense advantage. The felled logs were either carted or dragged by buffaloes to the river bank whence they were floated to Rajahmundry. In *Kurnool*, timber was dragged to the foot of the hills by bullocks and thence carted to the depots, while in *North Arcot* produce was generally transported by carts, ponies, donkeys and coolies through rough cart-tracks made by the contractors. In *Trichinopoly*, fuel was cut departmentally and supplied to the central jail and the South Indian Railway, carts and rail being respectively the means of transport. In *South Canara*, the newly-constructed road in Someshwar block and the rivers in Coondapoor and Puttur ranges were utilized for transport of timber. There was no change in the carriage of timber to depots in *North Malabar*. A small quantity, however, of fuel and bamboos was floated as an experimental measure from Kanoth to Tellicherry as in the previous year and sold at the latter place at a loss in fuel and profit in bamboos. In *North Coimbatore*, sandal was carried by coolies from the felling compartment to one of the roads and thence by carts to depot, while in *South Coimbatore*, timber was dragged by elephants, then trammed and subsequently carted to sale depots. In *Tinnevelly*, produce was transported as usual through roads or paths with the aid of carts, coolies or donkeys.

(*f*) *Exploitation of Minor Forest Produce.*

(1) Extraction of Fodder.

39. Owing to short rainfall and consequent want of food for cattle, the Board issued orders early in December 1899, authorizing the Collector of Kurnool to permit the free cutting of grass in reserved forests. The Collectors of the marginally-noted districts were also instructed to adopt similar measures, if, in their opinion the state of the season called for the concession in any part of their districts, care being taken to so work it as not to appreciably affect the supply of pasture for cattle for the grazing of which permits had already been taken out. This concession affected the revenue from sale of fodder. Only a sum of Rs. 155 was collected in *Kurnool*. The collection in *Anantapur* amounted to Rs. 88 against Rs. 105 in the previous year, while in *Bellary* it increased by 85 per cent., a sum of Rs. 1,524 having been realized against Rs. 818 during 1898–99. The amount would have been higher but for the concession of free removal. In *North Arcot* grass was allowed to be removed free from several reserves owing to the failure of the season. It was also removed on permits on payment. In *South Canara* the right to cut and remove grass was sold for Rs. 466 against Rs. 390 in the previous year, and in *South Malabar* a sum of Rs. 109 was realized from sale of grass.

(1) Gódávari.	(4) Cuddapah.
(2) Kistna.	(5) Bellary.
(3) Nellore.	(6) Anantapur.

2. Grazing.

40. The fees levied were the same as those in the previous year in all the districts except *Gódávari*, *Kistna* and *Bellary*. Alien cattle proceeding to Rampa were charged As. 2 per head during the year and Rs. 1,123 were thus realized. Foreign cattle were allowed to graze in all the parcelles open in the Vinukonda and Palnad ranges in *Kistna* on payment of double fees, as the graziers complained that much hardship was caused by the practice of issuing separate permits for each parcelle, and licenses at this rate were issued to 23,809 buffaloes and 4,761 cows. Annas 8 for buffaloes and bullocks were levied in the Bezwada and Gunadala reserves under the sanction conveyed in Government Order, No. 92, Revenue, dated 3rd February 1899, and As. 8 for buffaloes and proportionately for other animals in the Kondavid, Mangalagiri, Weld and Kondapalli reserves. In respect of eight other reserves which are freely resorted to by foreign cattle the rates prevailing in the Bezwada reserve were sanctioned during the year, but do not appear to have been brought into force. The special rate of Re. 1 per plough-bullock was levied in the Jaggayapeta extension reserve, and the Collector has been asked to explain the circumstances under which this unauthorized tax was collected. The enhanced rates sanctioned for the North-East and Donimalai ranges of the Sandur leased forests in *Bellary* had the effect of driving the cattle from the leased forests into the Government forests so as to cause undue strain upon the latter, and with the sanction of Government the rates were equalized.

The following statement compares by Circles the revenue realized under "grazing and grass removals" during the year under report and that immediately preceding :—

Circle.	1898–99.	1899–1900.	Increase.
	Rs.	Rs.	Rs.
Northern	1,43,544	1,79,065	35,521
Central	2,08,121	2,24,396	16,275
Southern	82,378	86,304	3,926
Total ..	4,34,043	4,89,765	55,722

There was again a satisfactory increase of Rs. 55,722, about 63·7 per cent. of which was contributed by the Northern Circle. Taking the districts individually, the revenue increased in *Kistna*, *Bellary*, *Salem*, *Trichinopoly*, *North Coimbatore*, *Kurnool*, *North Arcot* and *Nellore* by Rs. 16,059, Rs. 12,827, Rs. 10,540, Rs. 4,270, Rs. 3,955, Rs. 3,774, Rs. 3,705 and Rs. 2,765, respectively, while it fell in *Cuddapah*, *Tinnevelly* and *North Malabar* from Rs. 38,794, Rs. 6,796 and Rs. 1,489 to Rs. 34,520, Rs. 5,488 and Rs. 937, respectively. The cause for the decline in the revenue in *North*

Malabar is under enquiry. In *Cuddapah* it was due to the free grazing allowed in the reserves, and in *Tinnevelly* to the closing during the year of some of the grazing compartments open during the previous year and to the non-realization within the year of the sale amount of grass in the Kudrimalaiterai reserve. There was also a slight decrease in *Chingleput*, *South Arcot* and *South Canara*. The large increase in *Kistna* was due to the opening of larger areas for grazing and goat-browsing, to the levy of double and enhanced rates and to better supervision. The revenue realized in *Bellary* during the year was the highest since the introduction of the Forest Act, and is explained to be due to the strict check of the number of animals licensed and those resorting to the forests, to the timely and suitable arrangements made for the issue of permits, and possibly also, as in some other districts, to the bad season which prompted cattle owners to take their cattle to the reserves to find better grazing The increase in *Trichinopoly* was partly due to the levy of fees in the blocks notified under section 4 during the previous year and partly to better supervision. In *Salem* the enhanced fees were in force in the Hosúr and Dharmapuri ranges throughout the grazing season instead of a portion in the previous year. This fact and the larger amount of compensation fees levied for illicit browsing of goats and the levy of grazing fees in the blocks newly notified under section 4 contributed to the increase in the district. In *North Arcot* the number of animals for which permits were taken was less than in the previous year, which accounts for the greater number of cattle found grazing illicitly as reported above. In all the other districts the increase was due to better supervision.

(3) Miscellaneous Produce.

41. As reported in previous years the collection of miscellaneous produce was, with but few exceptions, leased out to contractors. In *Vizagapatam* the right of collection in Golgonda was unsuccessfully put up to auction and the work was carried out departmentally, the receipts amounting to Rs. 6,714. In Palkonda and Sarvasiddhi Ranges where also departmental working was in force there was a fall in receipts from Rs. 14,757 to Rs. 9,219 due to the poorness of the tamarind crop. The only departmental collection in *Kistna* was that of 410 lb. of nux-vomica seed for supply to the Medical Storekeeper, Madras. The right of collecting minor produce in the Nallamalais in *Kurnool* belongs to the Chenchus free of charge. In *Bellary*, *Anantapur*, *Chingleput*, *Salem*, *Tanjore* and *Madura*, stones, leaves for manure, thatching grass, &c., were removed on permits. The collection of Divi-divi pods was undertaken departmentally in *Chingleput*, *North Arcot* and *Trichinopoly*. In *South Canara* the manufacture of catechu, cinnamon and sandalwood-oil, collection of cardamoms and extraction of wood-oil were done departmentally. Fifteen tons and 1,757 lb. of catechu, against 15 tons and 854 lb. in the previous year, were manufactured at a cost of Rs. 195 per ton and sold for Rs. 685 a ton or at a loss of Rs. 67 as compared with the previous year's rate. The decrease was due to one man having practically a monopoly. A further quantity of 1 ton and 1,617 lb. of inferior catechu was also manufactured from the trees felled on the boundary lines of the Baindur and Savantagudde blocks on contract at Rs. 75 per candy of 500 lb. The higher rate was due to the distance the trees had to be carried. This quantity was sold for Rs. 2,154. Cinnamon-oil distillation was carried on to a small extent and realized Rs. 363 against Rs. 324 in the previous year. The sandal stills increased from 351 to 364 during the year under report. The contractors were permitted to fell and remove firewood from strips marked out on payment of Re. 1 per still per mensem. Each distillation lasted 21 days and 364 stills had 3,917 such distillations. The average quantity of firewood consumed per day for a still was 182 lb. and the area felled over was 215 acres. A net revenue of over Rs. 12 per acre was realized for the areas worked. The revenue realized from the stills amounted to Rs. 2,590 or Rs. 870 more than that obtained in the previous year. The wood-oil was extracted from *Dipterocarpus lævis* trees and is much in demand for painting wood work. The collection cost Rs. 67–9–8 and the receipts amounted to Rs. 518 on sale of 1,158 pounds. In *North Malabar* three tins of liquid gum kino were collected and nearly 500 lb. of superior kino were dried in a shed specially constructed for the purpose. 418 lb. of dried kino were sold for Rs. 627. In the *North Coimbatore district* the collection of minor produce was made by the departmental agency. The collection of gallnuts and vembadam bark considerably increased.

CHAPTER III—GROSS YIELD AND OUTTURN OF FOREST PRODUCE.

42. The subjoined abstract shows the total outturn of timber and other produce collected during the year as compared with that of the previous year :—

ABSTRACT I.—Comparative yield as per Forms Nos. 55, 56, 72A and 72B.

—	Timber (in cubic feet) including sandalwood (at 40 cubic feet a ton).		Fuel (in cubic feet) (at 40 cubic feet a ton).		Bamboos (in numbers).		Minor produce (gross value in rupees).*	
	1898-99.	1899-1900.	1898-99.	1899-1900.	1898-99.	1899-1900.	1898-99.	1899-1900.
1	2	3	4	5	6	7	8	9
By Government Agency ..	662,916	567,324	2,889,534	3,210,384	397,177	384,925	41,649	49,365
By purchasers (including confiscations)	1,958,096	2,274,117	10,229,486	11,115,841	25,535,500	27,306,029	9,02,537	10,07,674
By free grants	54,058	58,380	3,183	9,188	126,970	166,515	2,334	3,063
By right-holders	1,423	1,773	257,523	257,574	21,370	21,289	40,304	40,061
Total ..	2,676,493	2,901,594	13,379,726	14,592,987	26,081,017	27,878,758	9,86,824	11,00,163
Increase or decrease in 1899-1900 as compared with 1898-99	..	+ 225,101	..	+1,213,261	..	+1,797,741	..	+ 1,13,339
Percentage of increase or decrease over the previous year	..	+ 8·4	..	+ 9·0	..	+ 6·9	..	+ 11·5

* Includes value of grass cut and grazing fees.

The result under all heads shows an increase. The causes of the difference are explained below under the respective items.

Section I.—Departmental Operations.

43. The following abstract shows the produce collected and disposed of departmentally during 1899-1900 as compared with that of the previous year :—

Produce collected.	During 1898-99.			During 1899-1900.		
	Quantity.	Cost.	Average.	Quantity.	Cost.	Average.
1	2	3	4	5	6	7
		RS.	RS. A. P.		RS.	RS. A. P.
Timber .. .. C. ft.	658,882	69,269	0 1 8	564,056	68,769	0 1 11
Fuel .. .. ,,	2,889,534	1,18,410	0 0 8	3,210,384	1,43,412	0 0 9
Bamboos .. .. No.	397,177	6,489	0 0 3	384,925	6,665	0 0 3
Sandalwood .. .. C.-ft.	4,034	4,454	1 1 8	3,268	4,232	1 4 9
Minor produce .. .. Mds. (25 lb.)	33,286	18,246	0 8 9	45,348	25,421	0 9 5
Total ..	..	2,16,868	..	..	2,48,499	..

Produce disposed of.	During 1898-99.			During 1899-1900.			Stock on 1st July 1899.	Stock on 30th June 1900.
	Quantity.	Cost.	Average.	Quantity.	Cost.	Average.		
	8	9	10	11	12	13	14	15
		RS.	RS. A. P.		RS.	RS. A. P.		
Timber .. .. C. ft.	418,522	1,67,411	0 6 5	357,387	1,71,832	0 7 8	559,794	766,463
Fuel .. .. .. ,,	2,814,450	1,96,273	0 1 1	2,948,644	2,44,200	0 1 4	731,410	993,150
Bamboos .. .. No.	345,390	8,159	0 0 5	406,390	7,929	0 0 4	69,928	48,463
Sandalwood .. .. C. ft.	3,301	27,796	8 6 9	3,243	28,382	8 12 0	1,137	1,162
Minor produce Mds. (25 lb.)	59,927	50,008	0 13 4	40,507	49,251	1 3 5	15,234	18,075
Total ..	..	4,49,647	..	..	5,01,594	..	..	..

Compared with the collection of the previous year, the total quantity collected departmentally under timber, bamboos and sandalwood shows a decrease, while that under fuel and minor produce shows an increase. The decrease under timber is noticeable particularly in *Bellary*, *South Canara*, *South Malabar*, *Nilgiris* and *South Coimbatore*. This decrease was somewhat counterbalanced by the increase which occurred chiefly in *Ganjám*, *Cuddapah* and *North Malabar*. The decrease in *Bellary* was due to the stoppage of fellings, as there remained on hand a large quantity of the previous year's stock, while that in *South Canara* has not been explained. In *South Malabar* the limited quantity of timber felled from coupe No. V, and the area felled over by selection being only 877 acres against 1,195 in the previous year, accounted for the decrease. The decrease in the *Nilgiris* was due to the fact that no other timber except *Terminalia tomentosa* was felled in the Mudumalai forests, and that in *South Coimbatore* was due to the felling of a less quantity in Tekadi leased forests on account of the already large stock of timber remaining undisposed of in the forest depots of the Tunacadavu range from the previous year's stock, and to absence of felling in the areas leased out for coffee cultivation on the Anamalais. The increase in *Ganjám* was ascribed to the improvement fellings undertaken in the Kurcholi reserve; that in *Cuddapah* was due to collection of timber for famine tools, of redwood roots for supply to Messrs. Wilson & Co., Madras, and of miscellaneous timber in excess of the previous year's collections, and that in *North Malabar* to the felling of matti trees for sleepers, &c. Under *fuel* there was a noteworthy increase in *Kurnool*, *Cuddapah*, *Nellore*, *South Arcot*, *Salem*, *South Canara* and *South Coimbatore*, partly counterbalanced by decrease in *Bellary*, *Chingleput*, *North Arcot*, *Trichinopoly* and *Nilgiris*. The increase in *Kurnool* was due to the carrying out of improvement fellings in the Diguvametta block and to the clearing of forest around Chelama Railway station, while that in *Cuddapah* has not been explained. The cutting of fuel in *Nellore* according to sanctioned working-plans accounts for the increase in that district. The clearing of land for the South Indian rifle range in Panampattu reserved forest near Villupuram in the *South Arcot* district explains the increase in that district. The supply of a larger quantity of engine fuel to the Madras Railway Company accounted for the increase in the *Salem* district. No explanation for the increase in *South Canara* has been furnished. The increase in the quantity of fuel felled in *South Coimbatore* was due to the larger yield of the coupes in the Ayirangal working-circle. The decrease in *Bellary* was due to the causes already noted under "timber", and that in *Chingleput* to restricted fellings due to absence of brisk demand for fuel. The stoppage of departmental supply of engine fuel to the Madras Railway Company and other firms, due to the fact that the company accepted the tenders of contractors at reduced rates, was the cause of the decrease in *North Arcot*. The decrease in *Trichinopoly* was due to the fact that last year's figures included a quantity of fuel felled before 1st July 1898 for supply to the South Indian Railway Company during 1898–99. The decrease in the *Nilgiris* was due to the fall in the sale of charcoal, as the breweries, the chief consumers of that product, had arranged with private dealers for the requisite supply.

Under "bamboos" the decrease occurred chiefly in *North Coimbatore* for want of brisk demand. Illicit cutting on a large scale is reported to have been carried on in the district, and to this to a certain extent the decrease must be attributed. The matter is under enquiry. This decrease was partly counterbalanced by increase in *South Arcot* and *South Malabar*. In the former district departmental felling was undertaken to afford a living to the Malayalies who suffered for want of labour and a supply of latties was made to the District Police force. In *South Malabar* the increase was due to the floating down to Beypore of timber from Karumpoya reserve for sawing into sleepers.

Under "sandalwood" the decrease occurred mainly in *North Coimbatore* and the *Nilgiris*. In the *Nilgiris* it is attributed to an absence of mature trees; but there is no explanation from *North Coimbatore*.

Under "minor produce" the increase occurred mainly in *Nellore*, *Salem* and *South Coimbatore*, partly counterbalanced, however, by decrease chiefly in *Vizagapatam*. The collection of the produce according to the sanctioned working-plan of the Srihari-kota reserve accounted for the increase in the *Nellore* district, while a collection of a

considerable quantity of hay from the specially protected blocks and felled areas in Uttangarai, Salem West, and Salem East, ranges, gave rise to the increase noticed in *Salem*. The increase in *South Coimbatore* was due to larger collections of all kinds of produce made during the year as compared with that of the previous year.

Under "disposals" the total quantity shows an increase under all heads except timber, sandalwood and minor produce. The decrease under "timber" occurred chiefly in *Ganjám*, *Cuddapah* and the *Nilgiris*, partly counterbalanced by increase, principally in *South Malabar*. The cause for the decrease in *Ganjám* has not been explained, while in that in *Cuddapah* was attributed to the non-disposal of redwood roots, which have been tendered for by Messrs. Wilson & Co. The decrease in the *Nilgiris* was due to the causes already explained under "collection". For the increase in *South Malabar* no explanation has been tendered. The disposals under "fuel" show an increase, *Bellary*, *Nellore* and *Salem* being chiefly responsible for it. On the other hand, there were decreases, chiefly in *North Arcot*, *Trichinopoly*, the *Nilgiris* and *South Coimbatore*. In *Bellary* the following causes led to the increase:—(1) Departmental supply to the cotton mill which was supplied by private dealers in previous years, (2) brisk demand for branch wood from the coupes in the Sandur leased forests, and (3) successful endeavours made to create a market for the Sandur fuel. The increase in *Nellore* was due to the working of the coast range forests under sanctioned working plans, and that in *Salem* to causes already explained under "collection". The decrease in *South Coimbatore* was due to there being no proper demand for the fuel felled in Chinnar working-circles owing to the coupe contractors selling their fuel cheaper than the department and to the very large yield from the coupes of the Ayirangal working-circle. The decrease in the other districts was due to causes already explained under "collection".

The disposal under "bamboos" shows an increase which occurred mainly in *South Arcot* and was due to causes already explained under "collection". This increase was partly counterbalanced by small decreases scattered over several districts.

Under "sandalwood" the disposals show a slight decrease, which mainly occurred in the *Nilgiris* and was due to causes already explained under "collection."

Under minor produce the disposals exhibit a decrease, to which *Vizagapatam*, *Nellore*, *North Malabar* and *North Coimbatore* principally contributed. This was, however, partly counterbalanced by increase chiefly in *Salem* and *South Coimbatore*. In *North Malabar* the decrease was due to the collection of a smaller quantity of gum kino during the year and to the fact that other articles, such as honey, wax, gall-nuts, &c., were collected by contractors. The decrease in the other districts has not been explained by the Collectors concerned. The increase in *Salem* is attributable to collection and sale of hay, and that in *South Coimbatore* to larger collections and sale of products, such as gall-nuts and honey.

As regards cost of collection there was an increase in the rate under all the heads except "bamboos". The increase in the case of "timber" was due to the absence of fellings as in the previous year in the area leased out for coffee cultivation on the Anamalais in *South Coimbatore*, where the rate was low, and to the tramming and carting of a greater number of logs this year to sale depots. The increase in the rate for fuel is small and calls for no remark. Under "sandalwood" the increase was principally due to the difficulty of digging up of roots. The increase in the rate for "minor produce" was chiefly noticeable in *North Coimbatore*, due to the departmental collection of Vembadam bark (ventieago) which is very costly.

The average rate of sales shows an increase under all heads except bamboos. The increase under "timber" was due (1) to the sale of a comparatively greater quantity of teak in the Coimbatore depot during the year, (2) to advance payment made by the Ordnance department and by a purchasing contractor to the extent of Rs. 24,000 in *North Malabar*, and (3) to better rates in *South Malabar* and *South Canara*. Under "fuel" the increased rate of sales was due (1) to the brisk demand in *Bellary*, (2) to better prices fetched during the year in *Salem*, *Tinnevelly* and *South Coimbatore*. The decrease under "bamboos" was due generally to the sale of only small bamboos. Under "sandalwood" the increase occurred mainly in *North Coimbatore*, due to better rates obtained for the produce. The increase under "minor produce" was due principally to better rates obtained in *Nellore* and *North Coimbatore*.

Section II.—Removals by purchasers.

44. The subjoined abstract shows the quantity and value of timber and other produce removed by purchasers during the year under review, as compared with those of the preceding year:—

(FORM No. 72 A.)

ABSTRACT K.—Produce removed by purchasers.

	During 1898-99.			During 1899-1900.		
	Quantity.	Amount of sales.	Average.	Quantity.	Amount of sales.	Average.
Northern Circle.	TONS.	RS.	RS. A. P.	TONS.	RS.	RS. A. P.
Timber .. .. .. C. ft.	1,109,119	1,15,757	0 1 8	1,313,510	1,39,361	0 1 8
Firewood .. .. .. ,,	2,683,229	59,575	0 0 4	2,698,974	51,864	0 0 4
Bamboos .. .. .. No.	14,223,975	67,983	0 0 1	15,273,688	74,206	0 0 1
Grass and grazing	..	1,43,594	..	..	1,79,051	..
Minor produce	..	1,67,455	..	..	2,33,283	..
Total ..	..	5,54,364	..	..	6,77,765	..
Central Circle.						
Timber .. .. .. C. ft.	510,865	59,030	0 1 10	516,559	62,039	0 1 11
Firewood .. .. .. ,,	3,058,873	1,07,643	0 0 7	3,759,016	1,49,479	0 0 8
Bamboos .. .. .. No.	7,291,137	44,060	0 0 1	8,615,324	80,160	0 0 2
Grass and grazing	..	2,08,171	..	..	2,24,962	..
Minor produce	..	2,12,071	..	..	1,94,713	..
Total ..	..	6,30,965	..	..	7,11,353	..
Southern Circle.						
Timber .. .. .. C. ft.	275,561	31,215	0 1 10	371,983	54,575	0 2 4
Firewood .. .. .. ,,	4,381,191	1,12,586	0 0 5	4,621,740	1,05,508	0 0 4
Bamboos .. .. .. No.	3,978,543	18,728	0 0 1	3,367,484	20,247	0 0 1
Grass and grazing	..	82,402	..	..	86,266	..
Minor produce	..	88,054	..	..	89,108	..
Total ..	..	3,32,985	..	..	3,55,704	..
Presidency Total. Timber .. .. C. ft.	1,895,545	2,06,002	0 1 9	2,202,058	2,55,975	0 1 10
Presidency Total. Firewood .. .. ,,	10,123,293	2,79,804	0 0 5	11,079,730	3,06,851	0 0 5
Presidency Total. Bamboos .. .. No.	25,493,655	1,30,761	0 0 1	27,256,496	1,74,613	0 0 1
Presidency Total. Grass and grazing ..	.	4,34,167	..	..	4,90,279	..
Presidency Total. Minor produce	..	4,67,580	..	..	5,17,104	..
Grand Total of Sales ..	..	15,18,314	..	..	17,44,822	..

The total value of removals by purchasers shows a net increase of Rs. 2,26,508 over the previous year's amount as shown in the margin. The increase is distributed over all classes of produce.

	RS.
Timber ... ... +	49,973
Fuel .. .. +	27,047
Bamboos ... ... +	43,852
Grass and grazing ... ... +	56,112
Minor produce ... ... +	49,524
Total ...	2,26,508

Under "timber" there was a noticeable increase in the districts of *Gódávari*, *Kurnool*, *North Arcot* and *South Malabar* partly counterbalanced, by decrease chiefly in *Salem*, which was due (1) to the non-issue of permits for first class and reserved timber in large quantity pending the regulation of such fellings on a proper system and (2) to the decrease in the collection of the value of trees on darkhast lands on account of the badness of the season. The increase in *Gódávari* was due to removal of teak poles from large areas of unreserved lands leased out for cultivation in the Bhadrachalam Sub-division and in the Yernagudem range. Brisk demand for timber was the cause of the rise in *Kurnool*. In *North Arcot*, as the whole amount of the leases running for 15 months from 1st April 1898 to 30th June 1899 was shown as sales during 1897-98, the sale amount shown in 1898-99 was short of the actual amount and this appears also to be less than that realized during the year under report. The removal of wind-blown teak saplings from the Panangod and Walluvacheri plantations and of junglewood from the natural forests of the Nilambur range by contractors contributed to the increase in *South Malabar*.

Under "fuel" there was an increase markedly in *Nellore*, *North Arcot*, *Trichinopoly* and *South Canara*. The sales of several coupes in *Nellore* contributed to the increase in that district. The explanation for the increase in *North Arcot* is the same as that furnished for the increase under "timber" in that district. The large supply of fuel to the Public Works Department and to its contractors for important construction works, as well as the realization of the value of trees on darkhast lands accounted for the increase in the *Trichinopoly* district. *South Canara* has furnished no explanation for the increase under this head. The increases in the above districts were partly counterbalanced by decrease mainly in *Gódávari*, *South Coimbatore* and *Madura*. That in *Gódávari* was explained by the fact that part of the sale-proceeds of the coupe in Coringa reserve was paid in June 1899 whereas the coupe was cut over during the forest year 1899–1900. In *South Coimbatore* it was due to the removal of a smaller quantity of green firewood from the Bolampatty range owing to a large supply being already in the market. The decrease in *Madura* was ascribed (1) to realization of low prices for the coupes sold in the Kanavoipatty and Palamedu ranges, (2) to a decrease in revenue from trees on poramboke lands and (3) to the wrong crediting of the revenue from certain poramboke trees to Land Revenue Miscellaneous by the Revenue Department.

Under "bamboos" the increase was noticeable principally in *Gódávari*, *North Arcot* and *Salem*. In *Gódávari* people in want of labour took to cutting bamboos; and in *Salem* the system of leasing out bamboo blocks was extended in the Uttangarai range. The increase in *North Arcot* was due to causes explained under "timber" against the district.

The variation under "grazing" has already been explained in Chapter II. Under "minor produce" the increase occurred chiefly in *Gódávari*, *Kurnool*, *Bellary*, *Anantapur* and *Nellore*. The levying of fees on minor produce in the Agency and in Rampa in the *Gódávari* district and the crediting to "Forests" of the sale-proceeds of the usufruct of trees on *asalminaha* lands (lands held free of assessment) contributed to the increase in that district. The inclusion of a portion of Rs. 16,000 which was the revenue derived from tangedu bark sales for 1900–1901 in the accounts of 1899–1900 and the collection of the palm-tree revenue which amounted to over Rs. 15,000 explain the increase in *Kurnool*. That in *Bellary* was due (1) to recovery of some of the outstandings on account of tangedu leases of previous years, (2) to the large amount realized by the leasing out of that produce during the year, (3) to higher revenue derived from fixed fees for date-trees and (4) from amroy (usufruct of fruit trees) sales. In *Nellore* the increase is due to the development of the mica industry. No explanation has been furnished from *Anantapur*. The increase is partly counterbalanced by decrease scattered over several districts, principally *Salem*, the cause of which is not explained.

45. The following abstract compares the cost of departmental and private working and shows the net profit derived under each system:—

Items.	Measure.	Quantity sold. c. ft.	Amount of sale-proceeds.	Charges.			Net profit or loss.	Rate of net profit (column 8 ÷ column 3) per measure in column 2.
				A. Conservancy and works.	B. Establishment and contingencies.	Total.		
1	2	3	4	5	6	7	8	9
			Rs.	Rs.	Rs.	Rs.	Rs.	Rs. A. P.
Departmental Working—								
Timber	C.F.	357,387	1,71,832	68,769	59,207	1,27,976	+ 43,856	+0 1 11
Fuel	,,	2,948,644	2,44,200	1,43,412	1,23,472	2,66,884	— 22,684	—0 0 1
Bamboos	NO.	406,390	7,929	6,665	5,738	12,403	— 4,474	—0 0 2
Sandalwood	C.F.	3,243	28,382	4,232	3,644	7 876	+ 20,506	+6 5 2
Minor produce	MDS.	40,507	49,251	25,421	21,887	473,08	+ 1,943	+0 0 9
Private Working—								
Timber	C.F.	2,202,058	2,55,975	15,215	31,387	46,602	+2,09,373	+0 1 6
Fuel	,,	11,079,730	3,06,851	18,228	37,626	55,854	+2,50,997	+0 0 4
Bamboos	NO.	27,256,496	1,74,613	10,380	21,411	31,791	+1,42,822	+0 0 1
Grazing	..	..	4,90,279	29,140	60,117	89,257	+4,01,022	..
Minor produce	..	..	5,17,104	30,735	63,407	94,142	+4,22,962	..

The rate of profit realized by working "timber" departmentally was only slightly larger than that under private agency. The increased profit was due mainly to causes mentioned in paragraph 13 which explains the increase in the average rate of sales; "fuel" and "bamboos" however showed a loss. The loss under "fuel" was due mainly to the low prices obtained in *Nellore* for casuarina and junglewood owing to absence of competition. The "bamboos" sold were generally small and consequently fetched low prices. The increase under "sandalwood" as compared with the previous year was due principally to more favourable rates obtained during the year in *North Coimbatore*. The decrease in the profit realized under "minor produce" is explained by the fact that owing to the drought that prevailed only 40,482 maunds were sold as against 59,927 maunds in the previous year.

46. The sales of confiscated produce during the year under report as compared with those of the previous year are recorded in the subjoined abstract:—

(FORM No. 72-B.)

ABSTRACT L.—Confiscation.

	During 1898-99.			During 1899-1900.		
	Quantity.	Value.	Average.	Quantity.	Value.	Average.
Northern Circle.		RS.	RS. A. P.		RS.	RS. A. P.
Timber .. .. C. ft.	43,749	3,422	0 1 3	51,979	4,887	0 1 6
Firewood .. .. .. ,,	76,312	1,245	0 0 3	5,463	288	0 0 10
Bamboos .. .. No.	30,788	289	0 0 2	13,402	185	0 0—3
Minor produce .. Money value.	..	83	..	..	83	..
Total ..	..	5,039	..	..	5,443	..
Central Circle.						
Timber .. .. C. ft.	11,651	3,522	0 4 10	11,085	1,178	0 1 8
Firewood .. .. .. ,,	6,057	284	0 0 9	7,741	410	0 0 10
Bamboos .. .. No.	4,299	102	0 0 5	3,950	80	0 0 4
Minor produce .. Money value.	..	455	..	..	101	..
Total ..	..	4,363	..	..	1,769	..
Southern Circle.						
Timber .. .. C. ft.	7,151	1,960	0 4 5	8,995	2,048	0 3 8
Firewood .. .. .. ,,	23,824	951	0 0 8	22,907	1,213	0 0 10
Bamboos .. .. No.	6,758	55	0 0 2	32,181	262	0 0 2
Minor produce .. Money value.	..	252	..	..	107	..
Total ..	..	3,218	..	..	3,630	..
Presidency Total.						
Timber .. .. C. ft.	62,551	8,904	0 2 3	72,059	8,113	0 1 10
Firewood .. .. .. ,,	106,193	2,480	0 0 4	36,111	1,911	0 0 10
Bamboos .. .. No.	41,845	446	0 0 2	49,533	527	0 0 2
Minor produce .. Money value.	..	790	..	..	291	..
Grand Total ..	..	12,620	..	..	10,842	..

The total amount of sales shows a decrease of about Rs. 1,700. The decrease occurred mainly in *Cuddapah* where more timber, and in *Salem* where more sandalwood were seized last year.

47. The following abstract statement shows the quantity and value of produce removed by right-holders and free-grantees:—

	Timber.		Fuel.		Bamboos.		Minor produce.	Grazing.	Total value.
	Cubic feet.	Value.	Cubic feet.	Value.	Number.	Value.	Value.	Value.	
By Right-holders.		RS.		RS.		RS.	RS.	RS.	RS.
Northern Circle	1,311	94	257,510	4,828	20,489	128	38,850	700	44,600
Central Circle	..	..	..	..	..	..	..	356	356
Southern Circle	462	61	64	3	800	2	68	87	221
Total ..	1,773	155	257,574	4,831	21,289	130	38,918	1,143	45,177
By Free-grantees.									
Northern Circle	32,182	2,400	1,048	19	116,440	583	249	..	3,251
Central Circle	21,131	3,609	400	25	42,360	281	1,201	1,515	6,631
Southern Circle	5,067	1,494	7,740	402	7,715	69	98	..	2,063
Total ..	58,380	7,503	9,188	446	1,66,515	933	1,548	1,515	11,945

Many houses were burnt in *Kurnool*, *Bellary*, *Anantapur*, *Nellore*, *Trichinopoly*, *Tinnevelly*, *Madura* and *North Coimbatore*, and free grants were made to the ryots to enable them to rebuild them. In *Kistna* and *Cuddapah* there were fewer cases of destruction by fire. One thousand cart-loads of stones were allowed to be removed from waste lands in the *Bellary* district by persons who came forward to construct wells and build choultries for the convenience of the public. Information regarding free cutting and removal of grass in this and several other districts has been given under "3. Regulation of grazing" in the preceding chapter. The Muhammadan ryots of Vadugankalipalayam village in the Palladam taluk of *South Coimbatore* were allowed to cut fuel free in certain unreserved lands of the village for burning lime required for the reconstruction of their village mosque.

CHAPTER IV.—FINANCIAL RESULTS.

48. The revenue derived and the expenditure incurred during the year under review were the highest on record, and the surplus of receipts over expenditure (viz., Rs. 6,25,311) was also larger than in any previous year, except in 1895–96, when there was a surplus of Rs. 6,98,642 ; but it must be remembered that the expenditure, which amounted to Rs. 14,68,988 in 1895–96, rose to Rs. 16,88,196 in the year 1899–1900. The financial results of the year compared with those of the preceding year show an increase in the net revenue of Rs. 1,42,206, which would possibly have been greater but for the drought.

The subjoined statement compares by circles the revenue and expenditure of the year with those of the previous year :—

Forest year.	Circle.	Revenue.	Expenditure.			Net results.
			A. "Conservancy and works."	B. "Establishments."	Total.	
		Rs.	Rs.	Rs.	Rs.	Rs.
1898-99 ..	Northern	6,14,046	1,98,750	2,59,525	4,58,275	+ 1,55,771
	Central	8,73,772	2,48,912	2,81,023	5,29,935	+ 3,43,837
	Southern	5,87,436	3,20,139	2,83,800	6,03,939	— 16,503
	Total ..	20,75,254	7,67,801	8,24,348	15,92,149	+ 4,83,105
1899-1900 ..	Northern	7,13,954	2,29,397	2,65,661	4,95,058	+ 2,18,896
	Central	9,63,093	2,85,449	2,94,553	5,80,002	+ 3,83,091
	Southern	6,36,460	3,17,555	2,95,581	6,13,136	+ 23,324
	Total ..	23,13,507	8,32,401	8,55,795	16,88,196	+ 6,25,311

The gross receipts exceeded those of the previous year by Rs. 2,38,253 and the total expenditure by Rs. 96,047. The increase under receipts was distributed over all the circles, notably the Northern and Central circles, which contributed Rs. 99,908 and Rs. 89,321, respectively. The expenditure increased likewise in the Northern and Central circles by Rs. 36,783 and Rs. 50,067, and in the Southern circle by Rs. 9,197. It is satisfactory to note that the results in the Southern circle showed a surplus of about 3·6 per cent. of gross revenue against a deficit of 2 per cent. in the previous year. The outstanding revenue due to the department at the close of the year under review and of the preceding year stood as Rs. 2,35,656 and Rs. 1,99,858, respectively, in the audited figures of the Accountant-General furnished in form No. 61. The variations under the several heads of revenue and expenditure between the past two years are explained below.

Receipts—Departmental working.

Timber, +Rs. 4,421. Due mainly to the realization of outstanding revenue. The revenue under this head is still less than that of the year 1897–98 by Rs. 57,837. It has for the present only been possible to arrange for the supply of railway sleepers

on a somewhat limited scale, and the revenue anticipated by the sale of large stock of timber in *South Malabar* and *South Coimbatore* reserved during the previous year for the purpose of seasoning the wood and for conversion in the Anamalai saw-mill was not realized.

Fuel, +Rs. 47,927. The increase is due (1) to the greater demand for fuel in *Bellary* and *Salem* from the mill and other local firms and from the Madras Railway Company and (2) to the working of the casuarina plantations in *Nellore* under the provisions of the sanctioned plan.

Bamboos, —Rs. 230.
Sandalwood, +Rs. 586.
Minor produce, —Rs. 757.
} Small and requires no explanation.

Removals by purchasers.

Timber, +Rs. 39,229. Due mainly to the following causes:—(1) Increased demand for teak poles in *Gódávari*, (2) removal of a larger quantity of timber on permits in *Kurnool*, (3) realization of a larger revenue from trees on darkhast lands in *Cuddapah* and *Trichinopoly*, (4) sale of dead-wood and windfalls in *North* and *South Malabar* divisions.

Fuel, +Rs. 4,331. The better prices realized by the sale of coupes and fuel in Chingleput, the supply of a larger quantity of engine fuel to the Madras Railway Company from *North Arcot* and to the Public Works Department and its contractors in *Trichinopoly* accounted for the increase.

Bamboos, + Rs. 11,874. Ascribed to the permission granted to remove the produce on permit to a large extent in *Gódávari*, for providing means of livelihood for the poor, and to the extension of the system of leasing out bamboo blocks in *Salem* district.

Grazing, +Rs. 55,722. As has been explained elsewhere, due to more efficient control.

Other produce, +Rs. 38,160. Principally to the proper collection of *ad valorem* duty on minor produce exported from the Agency tracts in *Gódávari*, to increased revenue from tangedu and to the realization of a larger amount of fixed fees for date trees and amroy rents in *Bellary*. The better sales effected in *Salem* and the development of the mica industry in *Nellore* also contributed towards the increase.

Miscellaneous revenue, +Rs. 36,990. The increase was due principally to forfeiture of deposits by bamboo contractors in *Salem* for breach of the conditions of their agreements and to the collection of current and arrears of purchase money and assessment on lands on the Anamalais leased out for coffee cultivation in *South Coimbatore*.

The expenditure under A. "Conservancy and works" increased by Rs. 64,600. The excess of Rs. 51,631 under I. is proportionate to the increased revenue and was due to the extended departmental operations in *Bellary* and *Salem* and to the introduction of working plans in the reserves in *Nellore*. The increased commission paid to permit-issuing officers and the cost of additional temporary establishments entertained principally in *Kurnool* and *Nellore* explain the increase of Rs. 9,975 under II ; while that under live-stock, stores, &c., Rs. 16,631 is ascribed partly to the capture and feed of a large number of elephants in *North Malabar* and partly to the supply of tents to officers in the Northern and Central circles. The expenditure upon improvement and extension of forests, VIII, showed an advance of Rs. 16,588, the result of (1) the clearing of reserve boundaries in Bhádrachalam sub-division in *Gódávari* undertaken as a famine work, (2) the cost of final demarcation and line-clearing done in *South Canara* preliminary to the operations of the Survey of India Party, (3) the acquisition of the Karakavalsa forests in *Vizagapatam*, (4) the planting operations undertaken in *Nellore* according to sanctioned working plans, and (5) the payment of municipal tax on plantations in the *Nilgiri* district. The cost of establishment increased by Rs. 31,447, due mainly to the employment of additional Extra Assistant Conservators, to the gradual and temporary promotion of Rangers and Deputy Rangers to the higher grades and the gradual augmentation of the subordinate staff to the sanctioned limit of reorganization. *Salem*, as usual, heads the list in contributing over 26 per cent. of the net surplus. *Gódávari* ranks next with 15 per cent. followed by *Nellore* 13 per cent., *Kistna* and *North Arcot* each 11 and *Bellary* 10.

The *Nilgiris* as in last year showed a deficit of Rs. 38,357 which was due (1) to the suspension of felling operations of timber in the Mudumalai range and of sandalwood, to give rest to the forest, (2) to the felling of trees for conversion into sleepers and (3) to the fall in the revenue under firewood and charcoal owing to the failure to secure the Commissariat contract and to the absence of demand from the breweries, the chief consumers of the produce, the latter having made other arrangements for the supply. *Vizagapatam* showed also a deficit of Rs. 9,182. There was a fall in the revenue of the district due principally to bad season and an increase in expenditure due mainly to the money deposited in the District Court for the acquisition of the Karakavalsa forests; but this amount will be refunded during the current year if the proposal on hand to rent the forests is concluded.

CHAPTER V.—IMPORTANT ADMINISTRATIVE CHANGES.

49. *Realization of Revenue from the usufruct of Toddy-yielding trees on Government waste and Poramboke Lands.*—In *Ganjám* and *Vizagapatam* the revenue under this item was insignificant. The system of fixed fees has become popular in *Kistna* and is reported to be an improvement over the old auction system. In *Gódávari* a sum of Rs. 4,727 was realized during the year. In *Bellary* and *Anantapur* Rs. 17,286 and Rs. 13,603 were realized showing increases of Rs. 689 and Rs. 3,485, over the results of the previous year in these two districts respectively. In *Salem* and *Trichinopoly* also it is reported to be not more advantageous financially than the old system. The fixed fee system has only been in force for three years; in some districts the early auction rates were obviously speculative and a reaction appears to have set in at once. The system of fixed fees was introduced in *North Arcot* in October 1899; in *South Arcot* and *Tinnevelly* it has been introduced only during the current year; but the *South Arcot* practice was to include the right to charge fees on trees in the leases of minor forest produce. In *Madura*, *Malabar* and *South Canara* the number of Government trees is small, while there are no palms in the *Nilgiris*. In *Madura* and *Coimbatore* no one has come forward to bid for the trees in public auction or to take them on fixed fees. In some of the districts as for instance *Salem*, the people are reported to have been under the erroneous impression that the usufruct of Government trees included only the right to tap for fermented toddy but not the right to tap for sweet toddy, and in February 1899 Messrs. Parry & Co., complained to Government that the fixed fee had exercised a prejudicial effect on the manufacture of jaggery and suggested among other remedial measures that the fee of four annas might be reduced to one anna. The complaint was fully enquired into and it was found that nothing more was required than to lay down a rule for the guidance of Collectors that when the demand is very small a fee of one anna per tree is all that should be required and that the fee should be uniform throughout any one district whether the toddy drawn be sweet or fermented.

50. *Measures adopted to encourage the growth of manure-leaf-yielding trees and shrubs.*—In the Northern Circle an adequate supply of leaves is obtained by the agricultural population outside the reserves and no steps were taken to encourage the growth artificially. In *Bellary*, the chief species used are *Pongamia glabra* and *Cassia auriculata*, and rules were framed during the year by the Collector to regulate the extraction of the leaves of the latter species without damaging the larger stems, the bark of which is of great commercial value as a tanning agent. In the Central Circle very little was done in this direction except in *Cuddapah*, *Chingleput* and *Tanjore*. In the last-mentioned district an attempt to grow such trees proved a failure on account of the drought. In *Cuddapah* and *Chingleput* seeds of manure-leaf-yielding species were sown in some of the reserves, and the demand in the latter district were satisfactorily met from the reserves. In *Nellore*, there was no demand as the ryots are not accustomed to use leaf-manure. The results of the steps said to have been taken last year in *North Arcot* have not been reported. It was not found necessary to encourage the growth by artificial means in *South Arcot*. The right to cut and collect the leaves and twigs of shrubs, herbs, and climbers is leased out annually and special steps were taken during the year to have a proper record of outturn kept. In *South Canara* in the Southern Circle this subject was considered, but no defenite action was taken. In *Malabar* and *North Coimbatore*

no action is called for; manure leaves can be procured in great abundance from the extensive forests in the former district while the bulk of the irrigated lands in the latter are distant from forest areas. In *South Coimbatore* the demand is small and is met from the unreserved areas. Seeds of Kolingi (*Tephrosia purpurea*), the leaves of which are highly valued as manure, were sown over 30 acres in *Tinnevelly* and the seedlings are reported to be thriving; over one rupee per cart-load is paid for the right to collect and remove it and at times it is even carted 40 and 50 miles. The experiment will if successful be largely extended. In *Madura*, where the demand will probably be greatest, provision for the supply of leaves has been made in the working-plans, but it is reported that the ground is unsuited for the artificial reproduction of shrubs.

51. *Supply of forest produce to meet the wants of the people.*—In *Gódávari*, depots were opened for selling small timber and fuel to the public. In *Bellary* and *Anantapur* special facilities were afforded to the ryots to obtain timber, grass and green-wood by means of extensive departmental fellings. In *Chingleput*, the number of permit issuing stations was increased. Free grants of building materials were made in deserving cases in many districts. In *Salem* hay-making in the Morur block was attended with success. Charcoal was supplied at a low rate to the public from the Salem depot. Two more fuel depots were opened during the year in the district and the supply of agricultural implements from every depot was continued. In the other districts it is believed that reasonable facilities were, as a rule, afforded to the people for supplying their wants, and the Board hopes that careful arrangements to this end will soon be made every where in connection with the working-plans.

52. *Rules under the Forest Act.*—Rules for the management of forest and waste lands in the Jeypore estate in *Vizagapatam* and of the Wenlock Downs reserve in the *Nilgiris* as a pasture and recreation ground were sanctioned and published during the year. Draft rules for the management of the Nilambar leased forests have recently been submitted to Government. The rules for the Saptur estate in *Madura* were brought into force during the year and protection was, on the whole, fairly satisfactory. The forests are reported to be very poor, and it is feared that they will grow worse if they are not entirely closed to felling and grazing for a considerable time. In *Vizagapatam*, the proprietors of private forest lands are reported to value much the security given to them under the Timber Transit Rules in the matter of the transport of their produce to the market. The Transit Rules for *Kistna* sanctioned at the close of the previous year were introduced in the district during the year and special tanna stations were established. In *South Coimbatore*, the people are becoming better acquainted with the provisions of the rules and they are worked without hardship. The reports from *Ganjam*, *Salem*, *South Canara* and *North Coimbatore* furnish no information on the working of the transit rules sanctioned for these districts. In *Gódávari*, *Kurnool* and *Cuddapah* the rules have worked fairly well and no complaints were received.

53. *Working of the rules under section 26 of the Forest Act.*—The privileges allowed by these rules were generally availed of by the public and no complaints or abuses were brought to notice except in *South Arcot*, where babul trees on tank beds or disafforested areas are reported to have been cut; but steps are being taken to stop this. Revised lists of trees, which the villagers are prohibited from felling on unreserved lands were approved and sanctioned during the year for each range or taluk in all the districts of the Presidency; the number of such trees was limited to a maximum of twenty. In order to give wide publicity to these lists, the Collectors have also been requested to publish them frequently in their District Gazettes.

54. *Coffee cultivation in reserved forests.*—Of the three blocks advertised for sale last year in *South Coimbatore*, two were sold for the upset price of Rs. 5 per acre owing to absence of competition. The other block was sold at Rs. 9–8–0 per acre but the sale had to be cancelled as the purchaser failed to pay the purchase money. Agreeably to the instructions of Government restricting the grant of any more blocks it was not again put up to auction. The total number of coffee estates sold already is twenty, covering an extent of 18,494 acres and the rent and cesses due on them up to end of March 1900 are reported to have been collected. The owners of six of the estates have executed lease agreements, while in respect of three other estates the execution of the agreements are pending the payment of the stamp duty by the owners. The

agreements in the case of the eleven remaining estates have been sent to the owners for execution. In *Salem* two lease deeds were issued during the year for two blocks of 74 and 110 acres respectively, the grant of which was decided in previous years, and the total number of lease deeds issued was twenty-nine; the aggregate area covered by the leases was 3,389 acres and the annual demand Rs. 2,946.

55. *Tours of Forest Member.*—The Hon'ble Mr. J. Sturrock was the Forest Member till November 1899 and Mr. A. W. B. Higgens, for the remaining portion of the year. Mr. Sturrock proceeded to South Arcot in October 1899 and conferred with the Collector and the District Forest-officer on the vexed question of goat browsing in the district. Mr. Higgens paid one visit to *South Coimbatore* in January last to inspect the Sholakarai working-circle and another in the month of May to inspect the wild cardamom lands in the Anamalais in connection with disputes about the right of the hill tribes to collect the cardamoms. He conferred with the District Forest-officer, *Nilgiris*, in January and in March inspected the Tunnakonda reserve and the Reddipalli and Pullampet plantations and the Guvalacheruvu reserve in *Cuddapah*. He also proceeded to *Bellary* and *Salem* in April and inspected the Sandur leased forests in the former and the reserved forests near Yercaud in the latter district.

56. *Conservators' inspections.*—The subjoined statement shows the names of the Conservators who held charge of the three circles during the year, the number of days spent by them in camp, and the names of the districts inspected by them.

Circle.	Names.	Days in charge.	Days in camp.	Districts visited.	District Forest-offices visited.
Northern	Mr. E. D. M. Hooper	365	264	All ..	All.
Central	„ J. W. Cherry	77	12	All	All except Cuddapah and Chingleput.
	„ A. W. Peet	288	154		
Southern	„ J. W. Cherry	181	98	All except North Coimbatore.	All except South Canara, North Malabar and North Coimbatore.
	„ H. A. Gass	184	140		

Mr. Gass was deputed in March to the Forest School at Dehra Dun to serve as a member of the Board of Control.

57. *Touring of the District Forest-officers.*—All the District Forest-officers except those of *Trichinopoly cum Tanjore*, *Nellore*, *Tinnevelly*, and the *Nilgiris* spent more than half the year in camp. The short touring in the *Trichinopoly* charge was due to the frequent change in the *personnel* of the District Forest-officers. The touring of the officers in charge of the *Nilgiris* fell short of the prescribed minimum owing to the continued ill-health of Mr. Douglas, while the reason for short touring of the officers in the other districts has not been reported.

58. *Inspection of Range offices by the District Forest-officers.*—The range offices in all districts except *Gódávari*, *Bellary*, *Kurnool*, *South Arcot*, *Trichinopoly*, *North* and *South Coimbatore* and *Tinnevelly* were inspected twice during the year. In the districts excepted some Range offices were inspected only once, and others twice. No information on this point is contained in the reports from *Kistna* and *Nellore*.

59. *Audit of the accounts of the District Forest-offices.*—The accounts of all District Forest-offices except *North* and *South Malabar* were audited as usual by the Local Fund inspecting staff of the Accountant-General's office and the results are reported to be satisfactory. The reports from *Nellore*, *Tinnevelly* and the *Nilgiris* contain no information on the subject.

60. *Forest School.*—Four stipendiary students and one Ranger were sent to the Forest school from the Central Circle, four Deputy Rangers and two stipendiary students from the Northern Circle and one Deputy Ranger and a stipendiary from the Southern Circle; one forester deputed from the Southern Circle, was sent back as he was found incompetent. Three Deputy Rangers sent to the school in 1898 returned with Ranger's certificates, two to the Northern Circle, and one to the Central Circle.

61. *Conference of the District Forest and Divisional-officers during jamabandi*—The instructions of the Board on this subject were attended to in all the districts except *Kistna*, *Bellary*, *Kurnool*, *Nellore*, *South Arcot*, *Tanjore*, *Trichinopoly* and *North Malabar*. In *Kistna*, *Bellary* *Nellore*, *South Arcot*, *Kurnool* and *North Malabar*, the meeting of the officers was rendered impossible by the District Forest-officers of the districts being engaged in important inspection work during jamabandi. The Board is issuing further instructions on this subject with a view to promote harmonious working by Revenue and Forest officers in the interests of the people. There were no complaints of any importance except a few in *Ganjám*. The requests in *Ganjám* took the form of prayers to be allowed free grazing and to be permitted to cut reserved trees in unreserved lands, &c. No information has been furnished in the reports from *Madura* and *North Coimbatore*.

62. *Conduct and work of the establishment.*—Northern Circle.—One Deputy Ranger and one Forester in *Ganjám* were reported to the Conservator for unsatisfactory work. The services of a probationary Forester were dispensed with in *Vizagapatam* for absence without leave. In *Gódávari*, one Deputy Ranger was transferred for unsatisfactory work and one Forester suspended for leaving the district without permission. In *Kistna*, the prosecution of the Deputy Ranger (mentioned in last year's report) for misappropriation of grazing revenue fell through as the witnesses retracted their statements before the Magistrate. One Deputy Ranger was arrested for cheating by personation, but the result of the trial is not yet known. In *Bellary*, the services of a Deputy Ranger were dispensed with for suspected misappropriation of Government money and another reduced a few steps in his grade for continued unsatisfactory work. The services of one Forester were dispensed with for fraudulent conduct and sanction has been obtained for the prosecution of another (who has, however, absconded) for embezzlement of Government money.

Central Circle.—A Forester in *Chingleput* was suspended for misconduct and neglect of duty. In *Trichinopoly*, the work of a Ranger was found very unsatisfactory while another in *South Arcot* was dismissed. In *Salem*, a Deputy Ranger was acquitted by the Magistrate of embezzling Government money but he will be punished departmentally.

Southern Circle.—One Ranger was reduced a few steps in his grade for carelessness. Two foresters were suspended for absence without leave and another for neglect of duty; of these one resigned and the services of another were dispensed with. Two other foresters also resigned.

The conduct of the protective staff in all the three circles was, as usual, very unsatisfactory. Several Forest guards and watchers were suspended, fined or dismissed for gross neglect of duty, misconduct or misappropriation. In *North Arcot* one Forest guard was found murdered but the accused were discharged for want of evidence. A sum of Rs. 390 was stolen from the cash chest of Ranger Kulasekharan Chetty, who was ordered to make good the loss. The question of adopting severer disciplinary measures suggested by Government in its review on the last year's report will be reported on separately.

63. *Health of the establishment.*—In the Northern Circle, *Ganjám*, *Vizagapatam* and *Godávari* are, as usual reported to be unhealty for forest officers.

In the Central Circle, *Cuddapah* had the largest number of deaths, including those of two Foresters. *Nellore* and *Salem* were unhealthy. One Ranger died of carbuncle in *North Arcot*.

In the Southern Circle, *South Coimbatore* was very unhealthy, *South Malabar* unhealthy, *Tinnevelly* healthy, the *Nilgiris* healthy except in parts, and the rest fairly healthy.

64. *Service books.*—These are reported to have been maintained and verified in all the districts.

65. *Inventory of valuable stock.*—Stock registers are reported to have been maintained and verified in all the districts. In *South Canara* some discrepancies were found between the District Forest-office registers and those maintained in the Range offices. No mention is made in the *Nilgiri* Collector's report about the maintenance of these registers.

66. *Elephants.*—The elephant in *Vizagapatam* improved in her health and proved very useful. One of the two in *Gódávari* is reported to be unfit for service, also two in *South Canara*. Twenty-five elephants were captured during the year—five in *South Coimbatore*, two in *South Malabar* and eighteen in *North Malabar*. One calf was born in *North Malabar* one in the *Nilgiris*, and one in *South Coimbatore*. Nine elephants died and two were sold, seven of the deaths occurring in *South Coimbatore* chiefly owing to the drought. The number of elephants is shown as 70 in form No. 63 against 53 in the previous year.

67. *Rain-gauges.*—Readings are reported to have been properly recorded in all districts except *Ganjám* in the Northern Circle, *Nellore*, *Chingleput*, *Trichinopoly* and *Salem* in the Central Circle, and *Tinnevelly*, the *Nilgiris* and *South Canara* in the Southern Circle. The damaged rain-gauge at *Anantapur* has not been repaired, and there seems to have been something wrong with one or both the gauges in *Tanjore*, which though located only 3 miles apart, showed incompatibly different readings.

68. *Iron industry in the Salem district.*—Some experiments on a small scale were made to ascertain whether the local industry could not be revived on a paying scale. It was found that under the usual method (by using the ordinary native furnace, chiefly made of clay) 12½ lbs. of iron per rupee could be manufactured. The local rate at Salem is however 16 lbs. per rupee. It is hoped that by the introduction of improved methods, especially of blast, the industry may be again set on foot on an extensive scale. This matter was also discussed with the Inspector-General of Forests during his recent visit.

69. *Mica.*—Of the 48 mines sanctioned in *Nellore*, only 28 were actually working. There were eight sanctioned mines in patta lands and eight mines are reported to have been working in shrotriem lands and zamindari villages. The manufacture of "flimsy mica" from waste mica was largely carried on. Most of the mines were in the Rapur taluk. No fatal accidents are reported to have occurred during the year. The royalty deposited amounted to Rs. 49,168 against Rs. 22,617 in the previous year. Mica of an inferior sort as well as traces of manganese are reported to have been found in *Ganjám*. In *Gódávari*, Rs. 466 was collected as seigniorage on graphite from the Gódávari Coal Company. Messrs. Best & Co. have applied for a license to explore for graphite in the Bhadráchalam taluk. They have also set up plant for boring for coal in the Yernagudem range. In *Tinnevelly*, a license has been granted for exploring for mica, coal and plumbago in the forests of Rayapaliem.

70. *Work and services of superior officers.*—Northern Circle.—Mr. E. D. M. Hooper, the Conservator, says: "The only officer who has served under the Conservator is Mr. S. Cox, Deputy Conservator of Forests, who did hard and good work in the sâl forests of *Ganjam*". The Collector of *Kurnool* makes special mention of the good work done by M.R.Ry. Nallasami Nayudu Garu who was in charge of the sub-division of the district.

Central Circle.—Mr. A. W. Peet, the Conservator, says: "On the whole the work of the District Forest-officers was very satisfactory. The very large revenue obtained in *Salem* entailed a great strain on Mr. Brasier, who should be given full credit for his initiative and powers of organization. Mr. Foulkes in *Nellore* devoted particular attention to working plans."

Southern Circle.—Mr. H. A. Gass, the Conservator, says: "The Acting Conservator was in charge of the circle for six months only and is able to invite attention again to and to repeat the remarks made in last year's report on the Divisional-officers."

Messrs. Popert and Douglas retired during the year with effect from 26th March and 4th May 1900, respectively.

APPENDICES.

ANNUAL FORM NO. 44.

Forest Department, Madras Presidency.

AREA of reserved forests and reserved lands during 1899–1900.

Districts.	Area of reserved forests.						Area of reserved lands.						Total area of reserved forests and reserved lands.
	Area on 1st July 1899.		Added during the year.	Excluded during the year.	Area on 30th June 1900.		Area on 1st July 1899.		Added during the year.	Excluded during the year.	Area on 30th June 1900.		
	Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.	Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.	
Northern Circle.													
Ganjám	265,619	415	46,703	..	312,322	488	79,072	123	5,675	51,970	32,777	51	5,09
Vizagapatam	90,849	142	50,353	..	141,202	221	135,682	212	.	50,353	85,329	133	354
Gódávari	554,359	866	49,840	..	604,199	944	57,342	90	2,053	55,220	4,175	7	951
Kistna	478,696	748	35,281	..	513,977	803	253,602	396	5,706	51,585	207,723	325	1,128
Kurnool	1,282,374	2,004	46,028	..	1,328,402	2,075	573,282	896	.	57,826	515,456	806	2,881
Bellary	304,420	476	30,978	555	334,843	523	86,180	135	2,476	29,524	59,132	92	615
Anantapur	320,148	500	4,107	..	324,255	507	4,860	7	2,011	4,860	2,011	3	510
Total ..	3,296,465	5,151	263,290	555	3,559,200	5,561	1,190,020	1,859	17,921	301,338	906,603	1,417	6,978
Central Circle.													
Cuddapah	1,187,207	1,855	111,150	320	1,298,037	2,028	382,765	598	15,035	127,176	270,624	425	2,451
Nellore	417,260	652	9,425	..	426,685	667	35,701	56	31,159	10,315	56,545	88	755
Chingleput	134,247	210	270	..	134,517	210	3,029	5	..	553	2,476	4	214
North Arcot	748,406	1,169	10,734	2,161	756,979	1,183	42,819	67	1	9,945	32,875	51	1,234
South Arcot	438,458	685	..	..	438,458	685	15,510	24	..	.	15,510	24	709
Salem	791,420	1,237	13,294	336	804,378	1,257	119,329	186	21,425	15,646	125,108	196	1,453
Trichinopoly	138,087	216	15,397	.	153,484	240	68,293	107	229	18,503	50,019	78	318
Tanjore	11,519	18	..	..	11,519	18	..	..	..	..	..	..	18
Total ..	3,866,604	6,042	160,270	2,817	4,024,057	6,288	667,446	1,043	67,849	182,138	553,157	864	7,152
Southern Circle.													
South Canara	181,964	284	136,290	65	318,189	497	518,906	811	..	137,337	381,569	596	1,093
Malabar, North	101,843	159	..	2	101,841	159	72,256	113	..	..	72,256	113	272
Do. South	121,416	190	.	..	121,416	190	88,731	138	19	.	88,750	138	328
The Nilgiris	229,375	358	19,957	5	249,327	389	85,126	133	1,360	22,552	63,934	100	489
Coimbatore, North	678,898	1,061	31,040	2,560	707,378	1,106	356,657	557	23,414	38,655	341,416	533	1,639
Do. South	418,389	654	1,882	..	420,271	657	1,885	3	303	1,885	303	1	658
Madura	366,410	572	15,835	4	382,241	597	23,746	37	1,154	15,935	8,965	14	611
Tinnevelly	266,759	417	857	..	267,616	418	7,490	12	..	857	6,633	11	429
Total ..	2,365,054	3,695	205,861	2,636	2,568,279	4,013	1,154,797	1,804	26,250	217,221	963,826	1,506	5,519
Grand Total ..	9,528,123	14,888	629,421	6,008	10,151,536	15,862	3,012,263	4,706	112,020	700,697	2,423,586	3,787	19-649

ANNUAL FORM No. 44.

District.	Name of forest.	Area on 1st July 1899. Acres.	Area on 1st July 1899. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 30th June 1900. Acres.	Area on 30th June 1900. Equivalent in square miles.	Number and date of notification of addition or transfer.
				Reserved forests.				
Ganjám	Paluru block of the South Mohiri reserve.	..	..	629	..	629	..	No. 256, dated 6th June 1899.
	Gundribadi and north and south extensions.	..	..	7,542	..	7,542	..	No. 269, dated 13th June 1899.
	Tiliki	..	..	11,216	..	11,216	..	No. 338, dated 24th July 1899.
	Rogada	..	..	15,029	..	15,029	..	No. 342, dated 24th July 1899.
	Ramagodo	..	..	7,955	..	7,955	..	No. 414, dated 19th September 1899.
	Kaliyamba extension ..	..	..	1,543	..	1,543	..	No. 117, dated 15th March 1900.
	Ramapalli blocks A and B ..	..	..	2,789	..	2,789	..	No. 119, dated 15th March 1900.
	Area notified in previous years.	265,619	415	..	..	265,619	..	....
	Total ..	265,619	415	46,703	..	312,322	488	....
				Reserved lands (not transferred to reserved forests during the year).				
	Dhumi Dhumi	..	..	2,797	..	2,797	..	No. 494, dated 11th November 1899.
	Area notified in previous years.	* 33,912	..	† 1,335	‡ 5,267	29,980	..	....
	Total ..	33,912	..	4,132	5,267	32,777	51	....
				Reserved forests.				
Vizagapatam.	Dharakonda	..	..	46,880	..	46,880	..	No. 320, dated 11th July 1899.
	Karaka extension block 1.	..	..	1,148	..	1,148	..	No. 456, dated 7th October 1899.
	Arlova extensions A and B	..	..	1,509	..	1,509	..	No. 483, dated 1st November 1899.
	Kadagandi extension 3 ..	..	..	816	..	816	..	No. 142, dated 23rd March 1900.
	Area notified in previous years.	90,849	142	..	..	90,849	..	....
	Total ..	90,849	142	50,353	..	141,202	221	....
				Reserved lands (not transferred to reserved forests during the year).				
	Area notified in previous years.	85,329	..	..	..	85,329	133	....
				Reserved forests.				
Gódávari	Kovvada	..	..	17,799	..	17,799	..	No. 161, dated 2nd April 1899.
	Kopalli	..	..	14,924	..	14,924	..	No. 315, dated 4th July 1899.
	Jilugumilli	..	..	3,318	..	3,318	..	No. 398, dated 5th September 1899.
	Doramamidi extension ..	..	..	36	..	36	..	No. 407, dated 11th September 1899.
	Singampalli	..	..	3,142	..	3,142	..	No. 455, dated 7th October 1899.
	Dharbhagudem	..	..	2,660	..	2,660	..	No. 567, dated 15th November 1899.
	Rajavommangi	..	..	7,961	..	7,961	..	No. 38, dated 24th January 1900.
	Area notified in previous years.	554,359	866	..	..	554,359	..	....
	Total ..	554,359	866	49,840	..	604,199	944	....
				Reserved lands (not transferred to reserved forests during the year).				
	Ramasingavaram extension.	..	..	1,065	..	1,065	..	No. 454, dated 7th October 1899.
	Barrikonda do.	..	..	510	..	510	..	
	Area notified in previous years.	7,502	..	† 478	‡ 5,380	2,600	..	....
	Total ..	7,502	..	2,053	5,380	4,175	7	....

* Exclusive of the area of Kaliyamba extension notified both under sections 4 and 16 during the year.

† Rectification. ‡ At settlement.

District.	Name of forest.	Area on 1st July 1899. Acres.	Area on 1st July 1899. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 30th June 1900. Acres.	Area on 30th June 1900. Equivalent in square miles.	Number and date of notification of addition or transfer.
				Reserved forests.				
Kistna ..	Pamidipad	..	..	1,796	..	1,796	..	No. 255, dated 6th June 1899.
	Gandrayi	..	..	730	..	730	..	No. 341, dated 24th July 1899.
	Madugula	..	..	2,055	..	2,055	..	No. 350, dated 31st July 1899.
	Budavada extension 3 ..	..	..	335	..	335	..	No. 355, dated 4th August 1899.
	Madinapad extension 2 ..	..	..	422	..	422	..	No. 397, dated 5th September 1899.
	Budavada extension 1 ..	..	..	570	..	570	..	No. 435, dated 29th September 1899.
	Do. 2 ..	..	..	580	..	580	..	No. 436, dated 29th September 1899.
	Pasvemula extension 5 ..	..	..	285	..	285	..	No. 437, dated 29th September 1899.
	Madinapad extension 1 ..	..	..	670	..	670	..	No. 439, dated 29th September 1899.
	Vinukonda	..	..	7,901	..	7,901	..	No. 469, dated 23rd October 1899.
	Nayanapalli	..	..	919	..	919	..	No. 510, dated 15th November 1899.
	Nizampatam	..	..	5,993	..	5,993	..	No. 526, dated 20th November 1899.
	Goli	..	..	5,015	..	5,015	..	No. 519, dated 27th November 1899.
	Vedullapalli extension 2 ..	..	..	603	..	603	..	No. 574, dated 18th December 1899.
	Vemavaram	..	..	1,700	..	1,700	..	No. 40, dated 23rd January 1900.
	Sitarampuram	..	..	925	..	925	..	No. 41, dated 23rd January 1900.
	Uppumagalur	..	..	972	..	972	..	No. 43, dated 23rd January 1900.
	Kakirala extension 2 ..	..	..	1,499	..	1,499	..	No. 70, dated 9th February 1900.
	Malleswaram	..	..	823	..	823	..	No. 91, dated 2nd March 1900.
	Guttikonda extension 3 ..	..	..	788	..	788	..	No. 178, dated 20th April 1900.
	Kottur extension	..	..	700	..	700	..	No. 232, dated 5th May 1900.
	Area notified in previous years.	478,696	748	..	..	478,696	..	....
	Total ..	478,696	748	35,281	..	513,977	803	
		Reserved lands (not transferred to reserved forests during the year).						
	Kakirala extension 5 ..	2,570	..	* 1,150	..	3,720	..	No. 304, dated 28th June 1899.
	Guttikonda extension 4 ..	762	..	* 1	..	763	..	No. 406, dated 11th September 1899.
	Manchikallu	778	..	..	* 133	645	..	No. 55, dated 1st February 1900.
	Nilayapalem	1,510	..	* 851	..	2,361	..	No. 57, dated 30th January 1900.
	Ganjám No. 234	4,120	..	* 462	..	4,582	..	No. 90, dated 2nd March 1900.
	Kakirala extension 4 ..	3,000	..	..	† 1,029	1,971	..	No. 92, dated 2nd March 1900.
	Mandadi	4,080	..	* 2,156	..	6,236	..	No. 105, dated 6th March 1900.
	Venkatayapalem extension 9.	400	..	* 47	..	447	..	No. 107, dated 6th March 1900.
	Guttikonda extension 10 ..	1,626	..	* 889	..	2,515	..	No. 158, dated 26th March 1900.
	Kandlagunta extension 2 ..	2,000	..	..	† 600	1,400	..	No. 174, dated 2nd April 1900.
	Pidugurala	1,875	..	..	† 775	1,100	..	No. 180, dated 21st April 1900.
	Konank extension 2 ..	800	..	* 140	..	940	..	No. 188, dated 23rd April 1900.
	Guttikonda extension 8 ..	1,500	..	..	† 290	1,210	..	No. 191, dated 23rd April 1900.
	Venkatayapalem extension 7.	1,200	..	..	† 507	693	..	No. 192, dated 23rd April 1900.
	Kottapalem extension ..	3,073	..	..	* 911	2,162	..	No. 261, dated 25th May 1900.
	Kottur extension 2	600	..	..	..	600	..	No. 285, dated 13th June 1900.

* Rectification. † Unreserved by Collector.

District.	Name of forest.	Area on 1st July 1899. Acres.	Area on 1st July 1899. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to otherheads. Acres.	Area on 30th June 1900. Acres.	Area on 30th June 1900. Equivalent in square miles.	Number and date of notification of addition or transfer.
	Reserved lands not transferred to reserved forests during the year) cont.							
Kistna—*cont.*	Venkatayapalem extension II	1,300	..	..	† 974	326	..	No. 291, dated 13th June 1900.
	Gollapudi	296	..	..	296	..	..	No. 497, dated 10th November 1899.
	Kopparam block I	1,455	..	..	‡ 1,455	..	..	No. 102, dated 7th March 1900.
	Matsavaram	1,070	..	..	1,070	..	..	No. 270, dated 28th May 1900.
	Area notified in previous years.	184,306	..	* 10	* 240 † 2,745 § 5,279	176,052	..	....
	Total ..	218,321	..	5,706	16,304	207,723	325	
	Reserved forests.							
Kurnool	Loddipalli	..	..	1,176	..	1,176	..	No. 339, dated 24th July 1899.
	Akumur palmyra tope .	..	..	96	..	96	..	No. 415, dated 21st September 1899.
	Guvvalagunta blocks A, B and C.	..	..	11,825	..	11,825	..	No. 438, dated 27th September 1899.
	Eastern Nallamalai block II.	..	..	20,175	..	20,175	..	No. 16, dated 23rd December 1899.
	Do. do. I.	..	..	12,620	..	12,620	..	No. 42, dated 12th January 1900.
	Mukkella date tope	..	..	136	..	136	..	No. 140, dated 23rd March 1900.
	Area notified in previous years.	1,282,374	2,004	..	..	1,282,374	..	....
	Total ..	1,282,374	2,004	46,028	..	1,328,402	2,075	
	Reserved lands (not transferred to reserved forests during the year).							
	Markapur addition I ..	12	..	..	‡ 12	..	..	No. 247, dated 22nd May 1900.
	Area notified in previous years.	527,242	..	..	* 11 † 4,339 § 7,436	515,456	..	....
	Total ..	527,254	..	..	11,798	515,456	806	
	Reserved forests.							
Bellary	Basarakodu extension ..	..	..	787	..	787	..	No. 227, dated 19th May 1899.
	Kudaluru	..	..	1,153	..	1,153	..	No. 302, dated 29th June 1899.
	Kalluru east	..	..	471	..	471	..	No. 314, dated 3rd July 1899.
	Bachigondanahalli	..	..	1,735	..	1,735	..	No. 316, dated 3rd July 1899.
	Kosigi north	..	..	692	..	692	..	No. 327, dated 20th July 1899.
	Chintalapalli north	..	..	964	..	964	..	No. 354, dated 4th August 1899.
	Marutla	..	..	3,222	..	3,222	..	No. 389, dated 24th August 1899.
	Jittinakatti north-east extension.	..	..	740	..	740	..	No. 520, dated 27th November 1899.
	Tornagallu extension ..	..	..	154	..	154	..	No. 533, dated 27th November 1899.
	Marutla north-east extension	..	..	896	..	896	..	No 546, dated 6th December 1899
	Ubbalagandi north extension	..	..	782	..	782	..	No. 550, dated 6th December 1899.
	Tomalapuram south-east extension.	..	..	276	..	276	..	No. 565, dated 11th December 1899.
	Appayinahalli	..	..	2,378	..	2,378	..	No. 568, dated 12th December 1899.
	Gundabommanahalli ..	..	..	1,294	..	1,294	..	No. 575, dated 18th December 1899.
	Hulikunta	..	..	3,686	..	3,686	..	No. 54, dated 1st February 1900.
	Jettinakatti south-east extension.	..	..	1,294	..	1,294	..	No. 59, dated 30th January 1900.
	Shidagallu A block	..	..	3,198	..	3,198	..	No. 123, dated 15th March 1900.
	Area notified in previous years.	304,420	476	* 7,256	* 555	311,121	..	....
	Total ..	304,420	476	30,978	555	334,843	523	

* Rectification. † Unreserved by Collector. § At settlement. ‡ Initial notification cancelled.

District.	Name of forest.	Area on 1st July 1899. Acres.	Area on 1st July 1899. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 30th June 1900. Acres.	Area on 30th June 1900. Equivalent in square miles.	Number and date of notification of addition or transfer.
	Reserved lands (not transferred to reserved forests during the year.							
Bellary—*cont.*	Metriki extension	5,121	..	..	..	5,121	..	No. 381, dated 12th August 1899.
	Gundu do.	..	..	2,416	..	2,416	..	No. 106, dated 5th March 1900.
	Area notified in previous years.	57,337	..	* 60	† 4,883 ‡ 919	51,595	..	
	Total ..	62,458	..	2,476	5,802	59,132	92	
	Reserved forests.							
Anantapur ..	Kalagira	..	..	4,107	..	4,107	..	
	Area notified in previous years.	320,148	500	..	..	320,148	..	
	Total ..	320,148	500	4,107	..	324,255	507	
	Reserved lands (not transferred to reserved forests during the year).							
	Kaki	..	..	450	..	450	..	No. 33, dated 16th January 1900.
	Ravudi	..	..	350	..	350	..	
	Kodihalli 1	..	..	430	..	430	..	
	Do. 2	..	..	680	..	680	..	
	Do. 3	..	..	101	..	101	..	
	Area notified in previous years.	753	..	..	* 753	..	..	
	Total ..	753	..	2,011	753	2,011	3	
	Reserved forests.							
Cuddapah ..	Kanamalapalli extension ..	..	..	3,695	..	3,695	..	No. 242, dated 2nd June 1899.
	Vontimitta do. ..	..	..	2,529	..	2,529	..	No. 254, dated 6th June 1899.
	Cheyyavaram do. ..	..	..	5,081	..	5,081	..	No. 286, dated 19th June 1899.
	Kokiletikanama do. A ..	..	..	5,114	..	5,114	..	No. 300, dated 28th June 1899.
	Kosinepalli do. ..	..	..	1,092	..	1,092	..	No. 303, dated 28th June 1899.
	Sibiyala extension north ..	..	..	715	..	715	..	No. 313, dated 3rd July 1899.
	Pandikunta	..	..	2,456	..	2,456	..	No. 357, dated 1st August 1899.
	Chitvel extensions A and B.	..	..	11,351	..	11,351	..	No. 390, dated 31st August 1899.
	Buduguntapalli extension ..	..	..	3,136	..	3,136	..	No. 492, dated 11th November 1899.
	Madhaveram extensions, east and west.	..	..	4,425	..	4,425	..	No. 493, dated 11th November 1899.
	Lankamalai extension ..	..	..	43,576	..	43,576	..	No. 527, dated 20th November 1899.
	Konarazupalli extension ..	..	..	18,743	..	18,743	..	No. 571, dated 11th December 1899.
	Salivendla extension ..	..	..	4,799	..	4,799	..	No. 85, dated 21st February 1900.
	Gundlakonda	..	..	4,438	..	4,438	..	No. 146, dated 23rd March 1900.
	Area notified in previous years.	1,187,207	1,855	..	§ 320	1,186,887	..	§ No. 167, dated 2nd April 1900.
	Total ..	1,187,207	1,855	111,150	320	1,298,037	2,028	
	Reserved lands (not transferred to reserved forests during the year).							
	Cheyer extension	..	..	7,680	..	7,680	..	
	Kokeletikanama extension B.	..	..	7,336	..	7,336	..	
	Area notified in previous years.	271,615	..	* 19	* 16,026	255,608	..	
	Total ..	271,615	..	15,035	16,026	270,624	423	

* Rectification. † Unreserved by Collector. ‡ At settlement. § Khandam No. 1 of Nigadi reserve disafforested.

District.	Name of forest.	Area on 1st July 1899. Acres.	Area on 1st July 1899. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 30th June 1900. Acres.	Area on 30th June 1900. Equivalent in square miles.	Number and date of notification of addition or transfer.
		Reserved forests.						
Nellore ..	Nandipadu	..	..	2,215	..	2,215	..	No. 419, dated 21st September 1899.
	Tammanapatam Casuarina plantation extensions A and B.	..	..	515	..	515	..	No. 453, dated 7th October 1899.
	Udayagiri-Yerrakonda extension.	..	..	600	..	600	..	No. 518, dated 27th November 1899.
	Balayapalli	..	..	500	..	500	..	No. 576, dated 18th December 1899.
	Nandanavanam block B extension B.	..	..	550	..	550	..	No. 67, dated 6th February 1900.
	Nandanavanam A block extension.	..	..	660	..	660	..	No. 68, dated 9th February 1900.
	Dasaripalli	..	..	760	..	760	..	No. 84, dated 14th February 1900.
	Peddacherlopalli	..	..	1,700	..	1,700	..	No. 108, dated 7th March 1900.
	Hajipuram	..	..	1,925	..	1,925	..	No. 172, dated 7th April 1900.
	Area notified in previous years.	417,260	652	..	..	417,260	..	
	Total ..	417,260	652	9,425	..	426,685	667	
		Reserved lands (not transferred to reserved forests during the year).						
	Chinna Annalur extension ..	..	..	2,500	..	2,500	..	No. 328, dated 19th July 1899.
	Bhairavaram	..	..	1,800	..	1,800	..	No. 336, dated 24th July 1899.
	Kaluvayi	..	..	2,450	..	2,450	..	No. 343, dated 26th July 1899.
	Pedda Irlapad	..	..	7,000	..	7,000	..	No. 391, dated 31st August 1899.
	Marlapudi extensions A and B.	..	..	630	..	630	..	No. 436, dated 27th September 1899.
	South Mopur extension ..	..	..	594	..	594	..	No. 443, dated 27th September 1899.
	Vavveru extension	..	..	1,000	..	1,000	..	No. 523, dated 20th November 1899.
	Badvel	..	..	1,200	..	1,200	..	No. 528, dated 24th November 1899.
	Potegunta extension ..	..	..	450	..	450	..	No. 540, dated 1st December 1899.
	Turpukhambampad extension A.	..	..	1,300	..	1,300	..	No. 544, dated 4th December 1899.
	Nernur block A extension B.	..	..	900	..	900	..	No. 545, dated 4th December 1899.
	Nandanavanam block B extension A.	..	..	1,120	..	1,120	..	No. 151, dated 26th March 1900.
	Udayagiri-Veligonda block A extension.	..	..	1,400	..	1,400	..	No. 156, dated 26th March 1900.
	Penubarti	..	..	1,650	..	1,650	..	No. 171, dated 5th April 1900.
	Dachur	..	..	1,850	..	1,850	..	No. 179, dated 20th April 1900.
	Biradavolu	..	..	400	..	400	..	No. 181, dated 21st April 1900.
	Vadlapudi	..	..	200	..	200	..	No. 183, dated 21st April 1900.
	Yetur	..	..	2,290	..	2,290	..	No. 195, dated 23rd April 1900.
	Marupur extension	..	..	500	..	500	..	No. 196, dated 23rd April 1900.
	Chittalur	..	..	675	..	675	..	No. 227, dated 4th May 1900.
	Udayagiri-Veligonda block B extension.	..	..	1,250	..	1,250	..	No. 284, dated 13th June 1900.
	Area notified in previous years.	26,276	..	..	* 890	25,386	..	....
	Total ..	26,276	..	31,159	890	56,545	88	
		Reserved forests.						
Chingleput ..	Madayattur extension II ..	..	..	90	..	90	..	No. 257, dated 6th June 1899.
	Sirukunram do. A I ..	..	..	180	..	180	..	No. 539, dated 1st December 1899.
	Area notified in previous years.	134,247	..	..	..	134,247	..	....
	Total ..	134,247	210	270	..	134,517	210	

* At settlement.

District.	Name of forest.	Area on 1st July 1899. Acres.	Area on 1st July 1899. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads Acres.	Area on 30th June 1900. Acres.	Area on 30th June 1900. Equivalent in square miles.	Number and date of notification of addition or transfer.
	Reserved lands (not transferred to reserved forests during the year).							
Chingleput —*cont.*	Area notified in previous years.	2,759	..	..	* 283	2,476	4	....
	Total ..	2,759	..	..	283	2,476		
	Reserved forests.							
North Arcot.	Musalimadugu extension ..	..	..	1,829	..	1,829	..	No. 337, dated 24th July 1899.
	Kallapadi	..	..	6,945	..	6,945	..	No. 522, dated 20th November 1899.
	Elattur tope	..	..	11	..	11	..	No. 143, dated 23rd March 1900.
	Pichanur tope	..	..	30	..	30	..	No. 139, dated 23rd March 1900.
	Tellur tope	..	..	105	..	105	..	No. 141, dated 23rd March 1900.
	Agaramcheri tope	..	..	104	..	104	..	No. 141, dated 23rd March 1900.
	Reddigunta topes A and B..	..	..	23	..	23	..	
	Balambattu tope	..	..	18	..	18	..	
	Chandragiri tope	..	..	8	..	8	..	
	Agarala do.	..	..	13	..	13	..	
	Mudivarepalle tope ..	..	..	15	..	15	..	
	Eucalyptus do. ..	..	..	8	..	8	..	
	Venkatagirikota tope ..	..	..	2	..	2	..	
	Senuru do. ..	..	..	11	..	11	..	
	Morsapalli do. ..	..	..	15	..	15	..	
	Vellum tope	..	..	4	..	4	..	
	Alapuram do.	..	..	9	..	9	..	
	Nelvoi do.	..	..	122	..	122	..	
	Periyankuppam tope ..	..	..	44	..	44	..	
	Ammundi do. ..	..	..	8	..	8	..	
	Tulavapushpagiri do. ..	..	..	5	..	5	..	
	Kunnattur do. ..	..	..	19	..	19	..	
	Vemmani do. ..	..	..	7	..	7	..	
	Periyagaram do. ..	..	..	2	..	2	..	No. 210, dated 27th April 1900.
	Karapattu do. ..	..	..	10	..	10	..	
	Tamarapakam do. ..	..	..	5	..	5	..	
	Velapakam do. ..	..	..	4	..	4	..	
	Randam do. ..	..	..	13	..	13	..	
	Moranam do. ..	..	..	19	..	19	..	
	Sirungattur do. ..	..	..	20	..	20	..	
	Anantalai do. ..	..	..	25	..	25	..	
	Vaniyan chutram	..	..	3	..	3	..	
	Nedungunam tope	..	..	2	..	2	..	
	Kolipuliyur do. ..	..	..	19	..	19	..	
	Kodiyalam	..	..	10	..	10	..	
	Tennankur	..	..	16	..	16	..	
	Tandalam tope	..	..	16	..	16	..	
	Eruma vettu	..	..	18	..	18	..	
	Echoor tope	..	..	16	..	16	..	
	(Mel) Nemili tope	..	..	4	..	4	..	
	Wandiwash	..	..	13	..	13	..	
	Area notified in previous years.	748,406	1,169	† 1,164	† 2,159 ‡ 2	747,409	..	‡ No. 93, dated 2nd March 1900.
	Total ..	748,406	1,169	10,734	2,161	756,979	1,183	
	Reserved lands (not transferred to reserved forests during the year).							
	Vallam §	10	..	..	10	..	..	No. 197, dated 23rd April 1900.
	Area notified in previous years.	33,239	..	† 1	* 365	32,875	..	....
	Total ..	33.249	..	1	375	32,875	51	
	Reserved forests.							
South Arcot.	Area notified in previous years.	438,458	685	..	..	438,458	..	....
	Total ..	438,458	685	..	..	438,458	685	
	Reserved lands (not transferred to reserved forests during the year).							
	Area notified in previous years.	15,510	24	..	..	15,510	24	....
	Total ..	15,510	24	..	..	15,510	24	

* At settlement. † Rectification. ‡ A portion of Kodiyalam reserved forest disafforested.
§ Initial notification cancelled.

District.	Name of forest.	Area on 1st July 1899. Acres.	Area on 1st July 1899. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 30th June 1900. Acres.	Area on 30th June 1900. Equivalent in square miles.	Number and date of notification of addition or transfer.
	Reserved forests.							
Salem ..	Ponnagarappatti	..	..	3,769	..	3,769	..	No. 222, dated 26th May 1899.
	Morappur	..	..	5,982	..	5,982	..	No. 382, dated 22nd August 1899.
	Mavar	..	..	1,980	..	1,980	..	No. 34, dated 15th January 1900.
	Vaibampatti	..	..	1,563	..	1,563	..	No. 83, dated 23rd February 1900.
	Area notified in previous years.	791,420	1,237	..	* 336	791,084	..	No. 369, dated 12th August 1898. No. 15, dated 23rd December 1899.
	Total ..	791,420	1,237	13,294	336	804,378	1,257	
	Reserved lands (not transferred to reserved forests during the year).							
	Thirumanur	..	..	† 5,982	..	5,982	..	No. 326, dated 19th July 1899.
	Kouramalai	8,512	..	..	‡ 2,352	6,160	..	No. 353, dated 4th August 1899.
	Karungal	4,320	..	† 869	..	5,189	..	No. 359, dated 5th August 1899.
	Pani	16,761	..	† 1,000	..	17,761	..	No. 465, dated 9th October 1899.
	Bommaiyampatti	..	..	† 2,252	..	2,252	..	No. 500, dated 11th November 1899.
	Mangalam south extension block I. Mangalam south extension block II.	..	..	† 2,960	..	2,960	..	No. 551, dated 4th December 1899.
	Naralapalli	..	..	3,760	..	3,760	..	No. 258, dated 25th May 1900.
	Veppampatti extension ..	..	..	4,602	..	4,602	..	No. 103, dated 6th May 1900.
	Area notified in previous years.	76,442	..	..	..	76,442	..	....
	Total ..	106,035	..	21,425	2,352	125,108	196	
	Reserved forests.							
Trichinopoly.	Puliyur extension 2 ..	..	..	544	..	544	..	No. 384, dated 22nd August 1899.
	Naranamangalam	..	..	1,264	..	1,264	..	No. 405, dated 11th September 1899.
	Vilangudi extension 1 ..	..	..	189	..	189	..	No. 482, dated 4th November 1899.
	Sundareswarapuram extension.	..	..	74	..	74	..	No. 484, dated 4th November 1899.
	Vempavur	..	..	1,782	..	1,782	..	No. 524, dated 20th November 1899.
	Sittalai	..	..	1,226	..	1,226	..	No. 525, dated 20th November 1899.
	Peraiyur	..	..	1,382	..	1,382	..	No. 529, dated 20th November 1899.
	Sirukodal	..	..	765	..	765	..	No. 552, dated 8th December 1899.
	Puliyur extension 1 ..	..	..	1,644	..	1,644	..	No. 553, dated 8th December 1899.
	Mangalam	..	..	885	..	885	..	No. 569, dated 12th December 1899.
	Ayinarpalaiyam	..	..	1,607	..	1,607	..	No. 578, dated 18th December 1898.
	Alavoy extension	..	..	614	..	614	..	No. 39, dated 22nd January 1900.
	Pilakurichi	..	..	404	..	404	..	No. 56, dated 1st February 1900.
	Siluvacheri	..	..	1,054	..	1,054	..	No. 69, dated 10th February 1900.
	Kurumbalur	..	..	1,963	..	1,963	..	No. 118, dated 12th March 1900.
	Area notified in previous years.	138,087	216	..	..	138,087	..	....
	Total ..	138,087	216	15,397	..	153,484	240	

* Portion of Kapputhu reserve (110 acres) and portion of the Inner Javadis (226 acres) disafforested.
† Newly constituted reserved lands. ‡ Unreserved by Collector.

District.	Name of forest or land.	Area on 1st July 1899. Acres.	Area on 1st July 1899. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 30th June 1900. Acres.	Area on 30th June 1900. Equivalent in square miles.	Number and date of notification of addition or transfer
	Reserved lands (not transferred to reserved forests during the year).							
Trichinopoly —*cont.*	Valaiyur	725	..	..	† 725	..	..	No. 496, dated 10th November 1899.
	Vannarampundi	680	..	..	† 680	..	..	No. 201, dated 21st April 1900.
	Vilangudi Extension No. II.	185	..	..	† 185	..	..	No. 200, dated 21st April 1900.
	Periyavalayam South Extension No. II.	100	..	..	† 100	..	..	....
	Area notified in previous years.	51,206	..	* 229	‡ 1,416	50,019	..	. ..
	Total ..	52,896	..	229	3,106	50,019	78	
	Reserved forests.							
Tanjore ..	Area notified in previous years.	11,519	18	..	..	11,519	18	
	Reserved lands—Nil.							
	Reserved forest.							
South Canara.	Madibare	..	..	19,244	..	19,244	..	No. 163, dated 2nd April 1899.
	Surti Hola	..	..	360	..	360	..	No. 178, dated 18th April 1899.
	Jarkal Ane	..	..	387	..	387	..	No. 178, dated 18th April 1899.
	Mensinagudde	..	..	386	..	386	..	No. 230, dated 19th May 1899.
	Chingramale Extension	..	..	674	..	674	..	No. 221, dated 26th May 1899.
	Menasinakan	..	..	1,008	..	1,008	..	No. 228, dated 19th May 1899.
	Jettukattumale	..	..	1,386	..	1,386	..	No. 270, dated 13th June 1899.
	Hannar Magane	..	..	1,598	..	1,598	..	No. 340, dated 24th July 1899.
	Hurabe	..	..	545	..	545	..	No. 352, dated 4th August 1899.
	Megani valley	..	..	16,855	..	16,855	..	No. 370, dated 12th August 1899.
	Tombattu	..	..	12,866	..	12,866	..	No. 393, dated 29th August 1899.
	Mavinakodlu	..	..	1,627	..	1,627	..	No. 440, dated 29th September 1899.
	Halakki hola	..	..	872	..	872	..	No. 470, dated 20th October 1899.
	Nananjimale	..	..	1,459	..	1,459	..	No. 495, dated 11th November 1899.
	Doddinamane	..	..	3,469	..	3,469	..	No. 543, dated 6th December 1899.
	Mulliar	..	..	2,116	..	2,116	..	No. 548, dated 6th December 1899.
	Nerankimale	..	..	3,960	..	3,960	..	No. 577, dated 18th December 1899.
	Kadiamale	..	..	1,169	..	1,169	..	No. 11, dated 23rd December 1899.
	Kadimbilla	..	..	1,848	..	1,848	..	No. 50, dated 3rd February 1900.
	Naravi	..	..	28,625 8,777 27,059	..	28,625 8,777 27,059	..	No. 73, dated 6th February 1900.
	Kadike	39	..	..	§ 39	..	..	No. 329, dated 20th July 1899.
	Karingadde	26	..	..	§ 26	..	..	
	Area notified in previous years.	181,899	..	..	..	1,81,899	..	....
	Total ..	181,964	284	136,290	65	318,189	497	....
	Reserved lands (not transferred to reserved forests during the year).							
	Nire	666	..	..	..	666	..	....
	Kanakamajulu	2,252	..	..	..	2,252	..	....
	Area notified in previous years.	3,79,698	..	..	‡ 247 ‖ 800	3,78,651	..	. ..
	Total ..	3,82,616	..	..	1,047	3,81,569	..	
	Reserved forests.							
North Malabar.	Tirunalli	§ 2	..	..	§ 2	..	..	No. 290, dated 31st May 1900.
	Area notified in previous years.	101,841	159	..	..	101,841	..	
	Total ..	101,843	159	..	2	101,841	159	....

* Rectification. † Intitial notification cancelled. ‡ At settlement.
§ Disafforested. ‖ Unreserved by Collector.

District.	Name of forest or land.	Area on 1st July 1899. Acres.	Area on 1st July 1899. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 30th June 1900. Acres.	Area on 30th June 1900. Equivalent in square miles.	Number and date of notification of addition or transfer.
	Reserved lands (not transferred to reserved forests during the year).							
North Malabar—*cont.*	Area notified in previous years.	72,256	113	..	..	72,256	113	....
	Reserved forests.							
South Malabar.	Area notified in previous years.	121,416	190	..	..	121,416	190	....
	Reserved lands (not transferred to reserved forests during the year).							
	Area notified in previous years.	*88,731	138	19	..	88,750	138	....
	Reserved forests.							
The Nilgiris.	Wenlock Downs	..	..	19,814	..	19,814	..	No. 144, dated 26th March 1900.
	Kalhatti road No. 1 ..	..	..	7	..	7	..	No. 182, dated 20th April 1900.
	Do. „ „ 2 ..	..	..	4	..	4	..	Do.
	Kodappamund	..	..	75	..	75	..	Do.
	Salada	..	..	9	..	9	..	No. 211, dated 27th April 1900.
	Bikkimalai	..	..	4	..	4	..	
	Arigodalu	..	..	1	..	1	..	
	Selakallu	..	..	4	..	4	..	
	Addition to Black bridge ..	..	..	3	..	3	..	
	Uradihali	..	..	36	..	36	..	
	Naduvattam	2	..	..	† 2	..	..	No. 404, dated 11th September 1899.
	Town shola	1	..	..	† 1	..	..	No. 471, dated 20th October 1899.
	Tiger hill	2	..	..	† 2	..	..	No. 463, dated 12th October 1899.
	Area notified in previous years.	229,370	..	..	..	229,370	..	....
	Total ..	229,375	358	19,957	5	249,327	389	
	Reserved lands (not transferred to reserved forests during the year).							
	Nirmugiahalla and 16 other blocks.	..	..	385	..	385	..	No. 351, dated 31st July 1899.
	Yettiremara and 52 other blocks.	..	..	964	..	964	..	No. 505, dated 14th November 1899.
	Extension to cairn hill addition.	..	..	1	..	1	..	No. 506, dated 20th November 1899.
	Area notified in previous years.	65,169	..	‡ 10	§ 2,595	62,584	..	....
	Total ..	65,169	..	1,360	2,595	63,934	100	
	Reserved forests.							
	Cowdalli	..	..	31,040	..	31,040	..	No. 24, dated 16th January 1900.
	Nilgiri Eastern slopes ..	2,560	..	..	† 2,560	..	..	No. 273, dated 12th June 1900.
	Area notified in previous years.	676,338	..	..	..	676,338	..	....
	Total ..	678,898	1,061	31,040	2,560	707,378	1,106	
	Reserved lands (not transferred to reserved forests during the year).							
North Coimbatore.	Tamarakarai	..	..	7,360	..	7,360	..	No. 549, dated 6th December 1899.
	Dodda Induvadi	..	..	33	..	33	..	No. 25, dated 1st January 1900.
	Akkur jorai	..	..	948	..	948	..	Do.
	Siraganhalli sandalwood plantation.	..	..	33	..	33	..	No. 189, dated 1st May 1900.
	Area notified in previous years.	325,617	..	‡ 15,040	‡ 7,360 § 255	333,042	..	....
	Total ..	325,617	..	23,414	7,615	341,416	533	

* Though the initial notification in respect of the Nilambur blocks has been cancelled, their area is retained as the blocks are leased forests.
† Disafforested. ‡ Rectification. § At settlement.

District.	Name of forest or land.	Area on 1st July 1899. Acres.	Area on 1st July 1899. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 30th June 1900. Acres.	Area on 30th June 1900. Equivalent in square miles.	Number and date of notification of addition or transfer.
	Reserved forests.							
South Coimbatore.	Nellimalai	..	..	1,882	..	1,882	..	No. 32, dated 20th January 1900.
	Area notified in previous years.	418,389	654	..	..	418,389	..	....
	Total ..	418,389	654	1,882	..	420,271	657	
	Reserved lands (not transferred to reserved forests during the year).							
	Mary or Andiparai estate ..	..	..	303	..	303	1	No. 256, dated 19th May 1900.
	Reserved forests.							
Madura ..	Sirumalai north-west slope block A.	..	..	5,794	..	5,794	..	No. 31, dated 15th January 1900.
	Erakalmalai	..	..	3,648	..	3,648	..	No. 72, dated 10th February 1900.
	Andipatti southern block ..	..	..	6,393	..	6,393	..	No. 74, dated 10th February 1900.
	Area notified in previous years.	366,410	572	..	* 4	366,406	..	No. 168, dated 2nd April 1900.
	Total ..	366,410	572	15,835	4	382,241	597	
	Reserved lands (not transferred to reserved forests during the year).							
	Area notified in previous years.	7,911	..	† 1,154	‡ 100	8,965	14	....
	Reserved forests.							
Tinnevelly ..	Chintamani	..	..	321	..	321	..	No. 231, dated 19th May 1899.
	Khansapuram	..	..	536	..	536	..	No. 388, dated 22nd August 1899.
	Area notified in previous years.	266,759	417	..	..	266,759	..	....
	Total ..	266,759	417	857	..	267,616	418	
	Reserved lands (not transferred to reserved forests during the year).							
	Area notified in previous years.	6,633	..	..	..	6,633	11	

* Portion of Vennilai reserve disafforested. † Rectification. ‡ At settlement.

FORM

Forest

STATEMENT showing the Progress made in, and the Expenditure

Name of forest district.	Area already settled at commencement of year.	Areas finally settled during the year.					
		Number and date of Government Order according final sanction to the settlement.	Name of forest settled.	Area.	Expenditure incurred during the year on areas finally settled.		Entire cost per square mile of areas finally settled during the year.
					In forest accounts.	In other accounts.	
1	2	3	4	5	6	7	8
							Northern
	SQ. MLS.			SQ. MLS.	RS.	RS.	RS. A. P.
Ganjám ..	428	No. 479, dated 24th July 1899.	Tiliki	18	..	..	..
		No. 479, dated 24th July 1899.	Rogada	23	..	.	..
		No. 628, dated 19th September 1899.	Ramagodo	13	..	..	..
		No. 241, dated 15th March 1900.	Rampalli, blocks A and B ..	4	..	..	..
		No. 242, dated 15th March 1900.	Kaliyamba extension	2	..	..	..
			Total ..	60	..	..	..
Vizagapatam.	142	No. 440, dated 11th July 1899.	Dharakonda	73	..	..	..
		No. 687, dated 7th October 1899.	Karaka extension No. 40 (I) ..	2	..	..	..
		No. 736, dated 1st November 1899.	Arlova extensions I A and B.	3	..	..	..
		No. 283, dated 23rd March 1900.	Kadagandi extension No. III.	1	..	..	..
			Total ..	79	..	..	..
Gódávari ..	894	No. 434, dated 4th July 1899.	Kopalli	23	..	..	..
		No. 600, dated 7th September 1899.	Jilugumilli	5	..	..	..
		No. 611, dated 11th September 1899.	Doramamidi extension ..	* ..	..	..	..
		No. 686, dated 7th October 1899.	Singampalli	5	..	..	..
		No. 848, dated 15th December 1899.	Dharbagudem	4	39	..	..
		No. 48, dated 24th January 1900.	Rajavommangi	13	..	..	..
			Total ..	50	39	..	10 0 0
Kistna ..	751	No. 483, dated 24th July 1899.	Gandrayi	5			
		No. 523, dated 4th August 1899.	Budavada extension No. 3 ..				
		No. 604, dated 7th September 1899.	Madinapad do. „ 2 ..				
		No. 666, dated 29th September 1899	Budavada do. „ 1 ..				
			Budavada do. „ 2 ..				
		No. 667, dated 29th September 1899.	Pasavemula do. „ 5 ..				
		No. 502, dated 31st July 1899.	Madugula	3			
		No. 665, dated 29th September 1899.	Madinapad extension No. 1 ..	1			

* Below one square mile.

No. 45.

Department.

incurred on, Forest Settlements during 1899–1900.

Areas undergoing settlement.						
At commencement of the year.		Taken in hand during the year.		Expenditure incurred during the year on areas undergoing settlement.		Estimate of areas in which settlement operations have not yet commenced.
Name of tract.	Area.	Name of tract.	Area.	In forest accounts.	In other accounts.	
9	10	11	12	13	14	15
Circle.						
	SQ. MLS.		SQ. MLS.	RS.	RS.	SQ. MLS.
Kriyamba	36	Dhumi Dhumi	5	2,519	..	
Bainamari	6	....	..	..	..	
Chatrapur	1	....	..	..	..	30
Podhara	1	....	..	..	..	
Rankuhanumanthapuram ..	2	....	..	..	..	
		....	..	..	..	
Total ..	46		5	2,519	..	
Kadagandi	16	....	..	..	..	
Bharnakonda inclusive of Molalanka and Gadilavalasa.	20	....	..	..	..	89
Sitakhandi	8	....	..	..	..	
Total ..	44		..	..	..	
Ultimathule	4	Barrikonda extension	3	2,519	..	46
		Ramasingavaram extension ..				
Total ..	4		3	2,519	..	
Muppala	8	Kakirala extension No. 5 ..	6			
Darvemula extension No. 1 ..		Guttikonda do. ,, 4 ..	2			
Ipurupalem	9	Manchikallu				
Chirala		Nilayapalem	4			
Gokanakonda extension No. 1.	2	Ganjám extension No. 234 ..	7			
Daida	10	Kakirala do. ,, 4 ..	3			
Kakirala extension No. 3 ..		Mandadi	9			
Nagarazupalle extension No. 1.	2	Venkatayapalem extension No. 2.	1			
Balusupad	..					
Jaggiapet extension No. 5 ..	7	Guttikonda extension No. 10.	4	2,898	..	188
Do. do. ,, 6 ..		Kandlagunta do. ,, 2.	2			
Do. do. ,, 7 ..		Pidugurala	2			
Kandipad extension ,, 1 ..		Konank extension No. 2 ..	3			
Mukteswaram	2	Guttikonda do. ,, 8 ..				

Statement showing the Progress made in, and the Expenditure

Name of forest district.	Area already settled at commencement of year.	Areas finally settled during the year.					
		Number and date of Government Order according final sanction to the settlement.	Name of forest settled.	Area.	Expenditure incurred during the year on areas finally settled.		Entire cost per square mile of areas finally settled during the year.
					In forest accounts.	In other accounts.	
1	2	3	4	5	6	7	8
							Northern
	SQ. MLS.			SQ. MLS.	RS.	RS.	RS. A. P.
Kistna—*cont.*	751	No. 721, dated 23rd October 1899.	Vinukonda	12			
		No. 173, dated 14th November 1899.	Nayanipalli	1			
		No. 796, dated 20th November 1899.	Nizampatam	9			
		No. 809, dated 27th November 1899.	Goli	8			
		No. 854, dated 18th December 1899.	Vedullapalli extension No. 2.	1	3,036	..	..
		No. 44, dated 23rd January 1900.	Vemavaram	3			
		No. 38, dated 22nd January 1900.	Sitarampuram	3			
		No. 36, dated 22nd January 1900.	Uppumagulur				
		No. 108, dated 9th February 1900.	Kakirala extension No. 2 ..	2			
		No. 181, dated 2nd March 1900.	Malleswaram	4			
		No. 359, dated 20th April 1900.	Guttikonda extension No. 3 ..				
		No. 427, dated 5th May 1900.	Kottur extension				
		No. 376, dated 23rd April 1900.	* Tangedu extension No. 1 ..	7			
			* Do. do. ,, 2 ..				
		No. 563, dated 12th June 1900.	* Bollapalli do. ,, 1 ..				
		No 592, dated 19th June 1900.	* Kakirala do. ,, 7 ..				
			Total ..	59	3,036	..	..
Kurnool ..	2,004	No. 481, dated 24th July 1899.	Loddipalli	2	..		
		No. 635, dated 21st September 1899.	Alamur palmyra tope	† ..	..		
		No. 657, dated 27th September 1899.	Guvvalagunta blocks A, B and C.	18	..		
		No. 863, dated 23rd December 1899.	Eastern Nallamalai block No. 2.	51	..		
		No. 47, dated 24th January 1900.	Eastern Nallamalai block No. 1.				
		No. 275, dated 23rd March 1900.	Mukkella date tope	† ..	..		
			Total ..	71	233	450	..
Bellary ..	477	No. 415, dated 29th June 1899.	Kadaluru	2			
	(*a*)+ 10	No. 426, dated 3rd July 1899.	Bachigondanahalli	3			
	487	No. 470, dated 20th July 1900.	Kosigi north	1			
		No. 354, dated 4th August 1899.	Chintalapalli north	8			
		No. 566, dated 24th August 1899.	Marutla				
		No. 812, dated 27th November 1899.	Jettinakatti north-east extension.				
		No. 59, dated 30th January 1900.	Jettinakatti south-east extension.	2			
		No. 427, dated 3rd July 1899.	Kalluru east	1			
		No. 839, dated 11th December 1899.	Somalapuram south-east extension.				
		No. 844, dated 12th December 1899.	Appayyanahalli	3	..	..	..
		No. 811, dated 27th November 1899.	Tornagallu extension	2			
		No. 853, dated 18th December 1899.	Gundabommanahalli				

* Reservation takes effect from 1900-1901. † Below one square mile. (*a*) By rectification.

incurred on, Forest Settlements during 1899-1900—*cont.*

Areas undergoing settlement.						
At commencement of the year.		Taken in hand during the year.		Expenditure incurred during the year on areas undergoing settlement.		Estimate of areas in which settlement operations have not yet commenced.
Name of tract.	Area.	Name of tract.	Area.	In forest accounts.	In other accounts.	
9	10	11	12	13	14	15
Circle—cont.						
	SQ. MLS		SQ. MLS.	RS.	RS.	SQ. MLS.
Mutukur extension No. 5 ..	30	Venkatayapelam extension No. 7.	1			
Kandlagunta do. ,, 1 ..		Kottapalem extension No. 1.	3			
Gamalapad		Kottur do. ,, 2.	2			
Gangulakunta extension No. 1.		Venkatayapalem do. ,, 11.				
Rentachintala	11					
Paluvayi						
Pasvemula extension No. 9 ..						
Total ..	81		49	2,898	..	
Nandyal addition No. I ..	10		..	..	..	
Do. do. ,, II ..	20		..	..	..	
Velgode	61		..	..	..	
Eastern Nallamalai block No. 3.	48		..	..	..	
Panem	46		..	..	..	
Gani	88		..	..	..	452
Giddalur block No. I	11		..	..	..	
Do. do. ,, II	11		..	..	..	
Eastern Nallamalai block No. 4.	59		..	..	..	
Do. do. ,, 5.			..	..	..	
Total ..	354		..	142	3,295	
Chintalapalli, south	2	Metriki	8	..	..	29
		Gundu extension	4	..	..	

Statement showing the Progress made in, and the Expenditure

Name of forest district.	Area already settled at commencement of year.	Areas finally settled during the year.					
		Number and date of Government Order according final sanction to the settlement.	Name of forest settled.	Area.	Expenditure incurred during the year on areas finally settled.		Entire cost per square mile of areas finally settled during the year.
					In forest accounts.	In other accounts.	
1	2	3	4	5	6	7	8
							Northern
	SQ. MLS.			SQ. MLS.	RS.	RS.	RS. A. P.
Bellary—*cont.*		No. 78, dated 1st February 1900.	Hulikunta	6			
		No. 825, dated 6th December 1899.	Marutla north-east extension.	3			
		No. 824, dated 6th December 1899.	Ubbalagandi north extension.				
		No. 243, dated 15th March 1900.	Shidagallu A	5			
		No. 469, dated 15th May 1900.	* Do. B	9			
		No. 492, dated 19th May 1900.	* Do. C				
			Total ..	45	..	..	..
Anantapur ..	507	....	....	..	..	..	..
							Central
Cuddapah ..	1,873	No. 403, dated 28th June 1899.	Kokaletikanama extension A.	8	..	..	..
		No. 303, dated 29th June 1899.	Kosinepalle extension ..	2	..	..	..
		No. 428, dated 3rd July 1899.	Sibiyala extension north ..	1	..	..	..
		No. 506, dated 1st August 1899.	Pandikunta	4	..	..	..
		No. 585, dated 31st August 1899.	Chitvel extension	17	..	..	..
		No. 771, dated 11th November 1899.	Madhavaram extension ..	7	..	..	..
		No. 795, dated 20th November 1899.	Lankamalai extension ..	68	..	..	..
		No. 772, dated 11th December 1899.	Buduguntapalli extension ..	5	..	..	..
		No. 837, dated 11th December 1899.	Konarazupalli extension ..	29	..	..	..
		No. 146, dated 21st February 1900.	Salivendla extension ..	7	..	..	..
		No. 276, dated 23rd March 1900.	Gundlakonda	7	..	..	..
		No. 542, dated 1st June 1900.	* Surabhu	32	..	..	..
		No. 57, dated 13th June 1900.	* Kokaletikanama extension B.				
		No. 593, dated 19th June 1900.	* Kodur hill extension A ..				
			Total ..	187	..	..	..
Nellore ..	652	No. 634, dated 21st September 1899.	Nandipadu	3	..	..	..
		No. 685, dated 7th October 1899.	Tammanapatam casuarina plantation extensions A and B.	1	..	..	..
		No. 810, dated 27th November 1899.	Udayagiri-Yerrakonda extension.	1	..	..	..
		No. 850, dated 18th December 1899.	Balayapalli	1	..	..	..
		No. 101, dated 6th February 1900.	Nandanavanam block B extension B.	1	..	..	..

* Reservation takes effect from 1900–1901.

incurred on, Forest Settlements during 1899-1900—*cont.*

Areas undergoing settlement.						
At commencement of the year.		Taken in hand during the year.		Expenditure incurred during the year on areas undergoing settlement.		Estimate of areas in which settlement operations have not yet commenced.
Name of tract.	Area.	Name of tract.	Area.	In forest accounts.	In other accounts.	
9	10	11	12	13	14	15
	SQ. MLS.		SQ. MLS.	RS.	RS.	SQ. MLS.
Circle—cont.						
Total ..	2		12	..	..	
....	..	Kodihalli No. I	3	..	..	....
		Do. No. II				
		Do. No. III				
		Ravudi				
		Kaki				
	..	Total ..	3	..	847	
Circle.						
Idupalapaya extension ..	21	Cheyur extension	12	..	..	42
Ganganapalli extension ..	60	....	..	..	..	
Sangasamudram	8	....	..	..	..	
Palakonda extension	49	....	..	..	..	
Kanchalamoram extension ..	25	....	..	..	..	
Papepalli extension east and west	17	....	..	..	..	
Seshachalam extension D ..	26	....	..	..	..	
Do. do. A ..	60	....	..	..	..	
Yellutla extension A ..	5	....	..	..	..	
Kondapuram tope	..	....	..	..	..	
Gorivikanama extension ..	2	....	..	..	..	
Gottimanikona Do. ..	9	....	..	..	..	
Gadikota extension	20	....	..	..	..	
Turpukonda extension ..	35	....	..	..	..	
Total ..	337	Total ..	12	..	..	
Pedda Alavalapadu	2	Pedda Irlapad	11			
Ayyavaripalli	3	Nandanavanam block B extension A	7			
Musunur		Chinna Annalur extension ..				
Mogilicherla west		Vavveru extension				
Nandanavanam block extension C	3	Marlapudi A and B extensions.	1			
Totalacheruvupalli	2	South Mopur extension ..	1			
Guvvadi, east	5	Badvel	2			
Do. west		Potegunta extension ..				
Inimerla	9	Turpukambampad extensions A and B	7			
Raviguntapalli		Nernur block A extensions B..				
Mogilicherla, north	2	Penubarti				

Statement showing the Progress made in, and the Expenditure

Name of forest district.	Area already settled at commencement of year.	Areas finally settled during the year.					
		Number and date of Government Order according final sanction to the settlement.	Name of forest settled.	Area.	Expenditure incurred during the year on areas finally settled.		Entire cost per square mile of areas finally settled during the year.
					In forest accounts.	In other accounts.	
1	2	3	4	5	6	7	8
							Central
	SQ. MLS.			SQ. MLS.	RS.	RS.	RS. A. P.
Nellore—*cont*	652	No. 107, dated 9th February 1900.	Nandanavanam block A extension.	1	..	..	..
		No. 133, dated 14th February 1900.	Dasaripalli	1	..	..	..
		No. 203, dated 7th March 1900.	Peddacherlopalli	3	..	..	..
		No. 331, dated 7th April 1900.	Hajipuram	3	..	..	..
		No. 332, dated 7th April 1900.	* Kaluvaya	4	..	..	..
		No. 541, dated 1st June 1900.	* Dagudarti extension ..				
			Total ..	19	1,347	..	70 14 4
Chingleput.	211 (*a*)—1	No. 815, dated 1st December 1899.	Sirukunram A extension I ..	..	..	..	..
	210		Total ..	† ..	..	..	..
North Arcot.	1,169 (*b*)—1	No. 480, dated 24th July 1899.	Musalimadugu extension ..	3	..	..	..
		No. 790, dated 20th November 1899.	Kallapadi	11	..	..	..
	1,168	No. 210, dated 27th April 1900.	Reddigunta topes A & B ..				
		Do.	Balampattu tope				
		Do.	Chandragiri				
		Do.	Agarala				
		Do.	Mudivaripalle				
		Do.	Eucalyptus				
		Do.	Venkatagirikota				
		No. 399, dated 27th April 1900.	Senuru				
		No. 285, dated 23rd March 1900.	Pichanur				
		No. 210, dated 27th April 1900.	Morsapalle				
		Do.	Vellam				
		No. 284, dated 23rd March 1900.	Tellur				
		No. 210, dated 27th April 1900.	Alapuram				
		No. 141, dated 23rd March 1900.	Agaramcheri				
		No. 210, dated 27th April 1900.	Nelvoi				
		Do.	Periyankuppam				
		Do.	Ammundi				
		Do.	Tulava Pushpagiri				
		No. 274, dated 23rd March 1900.	Ellatur	1	..	..	..
		No. 210, dated 27th April 1900.	Kunnathur				
		Do.	Vemmani				
		Do.	Periyagaram				
		Do.	Karapattu				
		Do.	Tamarapakam				
		Do.	Velapakam				
		Do.	Randam				
		Do.	Moranam				
		Do.	Sirangattur				
		Do.	Anantalai				
		Do.	Vanianchutram				
		Do.	Nedungunam				
		Do.	Kolipuliyur				

* Reservation takes effect from 1900-1901.

(*a*) For rounding off of fractions. † Less than one square mile. (*b*) By rectification.

incurred on, Forest Settlements during 1899-1900—*cont.*

Areas undergoing settlement.						Estimate of areas in which settlement operations have not yet commenced.
At commencement of the year.		Taken in hand during the year.		Expenditure incurred during the year on areas undergoing settlement.		
Name of tract.	Area.	Name of tract.	Area.	In forest accounts.	In other accounts.	
9	10	11	12	13	14	15
	SQ. MLS.		SQ. MLS.	RS.	RS.	SQ. MLS.
Ongole—cont.						
		Dachur	3			
		Biradavolu extension	4			
		Vadlapudi extension				
		Yetur				
		Marupur extension	1			
		Chittalur	1	473		13
		Bhairavaram	3			
		Udayagiri-Veligonda block A extension	2			
		Udayagiri-Veligonda block B extension	2			
Total ..	26		45	473	..	
Nemali extension 2						
Kattur extension 2						
Maiyur block	4	....	..	..	350	
Marudam						
Nanmangalam extension 2 ..						
Total ..	4		..	..	350	
Peddur extension	15					
Nellipatla	12					
Totakanama	8					
Pallelakuppam extension A ..	11					
Ponnai anicut tope	* ..	....	..	560	..	

* Less than one square mile.

Statement showing the Progress made in, and the Expenditure

Name of forest district.	Area already settled at commencement of year.	Areas finally settled during the year.				
		Number and date of Government Order according final sanction to the settlement.	Name of forest settled.	Area.	Expenditure incurred during the year on areas finally settled.	Entire cost per square mile of areas finally settled during the year.
					In forest accounts. / In other accounts.	
1	2	3	4	5	6 / 7	8
						Central
	SQ. MLS.			SQ. MLS.	RS. / RS.	RS. A. P.
North Arcot —*cont.*		No. 210, dated 27th April 1900.	Kodiyalam			
		Do.	Tennankur			
		Do.	Tandalam			
		Do.	Erumavettu			
		Do.	Echoor			
		Do.	Mel Nemeli			
		Do.	Wandewash			
		No. 456, dated 11th May 1900.	* Thachambadi tope	4	.. / ..	..
		No. 534, dated 31st May 1900.	* Virlabanda			
				..	.. / ..	..
			Total ..	19	.. / ..	..
South Arcot.	685	....	....	..	..	
			Total ..	..	.. / ..	..
Salem ..	1,243 † —1	No. 561, dated 22nd August 1899.	Morappur	9	.. / ..	..
	1,242	No. 23, dated 15th January 1900.	Mavar	6		
		No. 561, dated 23rd February 1900.	Vathampatti			
		No. 594, dated 19th June 1900.	* Nagaluthu extension ..	9		
			* Onnakkarai			
			Total ..	24	.. / ..	..
Trichinopoly.	216	No. 612, dated 11th September 1899.	Naranamangalam	2		
		No. 792, dated 20th November 1899.	Vempavur	3		
		No. 793, dated 20th November 1899.	Peraiyur	2		
		No. 805, dated 23rd November 1899.	Sittali	2		
		No. 831, dated 8th December 1899.	Puliyur extension No. II ..	1		
		No. 832, dated 8th December 1899.	Sirukodal	1		
		No. 843, dated 12th December 1899.	Mangalam	1		
		No. 546, dated 19th August 1899.	Puliyur extension No. I ..		.. / ..	..
		No. 852, dated 18th December 1899.	Ayinarpalaiyam	5		
		No. 224, dated 12th March 1900.	Kurumbalur			
		No. 747, dated 4th November 1899.	Vilangudi extension No. I ..	4		
		No. 738, dated 1st November 1899.	Sundareswarapuram extension.			
		No. 37, dated 22nd January 1900.	Alavoy extension	3		
		No. 77, dated 1st February 1900.	Pillakurichi			

* Reservation takes effect from 1900-1901.
(†) Disafforested.

incurred on, Forest Settlements during 1899-1900—*cont.*

Areas undergoing settlement.						
At commencement of the year.		Taken in hand during the year.		Expenditure incurred during the year on areas undergoing settlement.		Estimate of areas in which settlement operations have not yet commenced.
Name of tract.	Area.	Name of tract.	Area.	In forest accounts.	In other accounts.	
9	10	11	12	13	14	15
Circle—cont.						
	SQ. MLS.		SQ. MLS.	RS.	RS. A. P.	SQ. MLS.
	46		..	560	..	
Pinjur	12		..	..	..	..
Damarakadu						
Odaiyanattam						
Sankarapuram tope (south) ..	12	....	..	..	..	..
Do. (north) ..						
Kattuvanjur tope						
Puttai tope						
Total ..	24		..	..	..	
Pattimedu extension	32	Tirumanur	9	..	..	161
Shelur		Bommaiyampatti	3	..	..	
Kallavi		Mangalam south extension blocks I and II.	5	..	..	
Parigam A	31	Kouramalai	10	..	..	
Do. B		Karungal	8	..	..	
Ubbarani	19	Veppampatti extension ..	7	..	..	
Velampatti	5	Pani	28	..	..	
Kurichi	4	Naralappatti extension ..	6	..	..	
Total ..	91		76	..	4,660	
Thatchankurichi	4					
Kundur Kalvarayankolam ..						
Mogavanur	5					
Shemmalai extension No. I ..						
Aniyappur western extension..	4					
Arasadi Arwithi						
Kunnam						
Pulambadi No. I	7					
Vengaram						
Omandur						
Edumalai	9					
Vellakalpatti						
Pulivalam						
Mavilippatti	3					
Maniyankurichi	2					
Kottathur	4					
Velur	5					
Nakkasalam	6					
Mamalai extension						
Marmareddipalayam						
Valkaradu	8					
Kurichimalai						
Sittiramanai						
Nedungur	3					
T. Kanappadi extension ..						
Appananallur						
Viramachampatti						
Sattanur	14					

Statement showing the Progress made in, and the Expenditure

Name of forest district.	Area already settled at commencement of year.	Areas finally settled during the year.					
		Number and date of Government Order according final sanction to the settlement.	Name of forest settled.	Area.	Expenditure incurred during the year on areas finally settled.		Entire cost per square mile of areas finally settled during the year.
					In forest accounts.	In other accounts.	
1	2	3	4	5	6	7	8
							Central
	SQ. MLS				RS.	RS.	RS.	
Trichinopoly—*cont.*	216	No. 117, dated 10th February 1900.	Siluvacheri				
		No. 425, dated 5th May 1900.	* Tirukkonam extension ..				
		No. 424, dated 5th May 1900.	* Ulliyakkudi extension ..	2			
		No. 533, dated 31st May 1898.	* Karaippakkam extension ..		..	..	..
		No. 545, dated 2nd June 1900.	* Peruvalappur				
		No. 426, dated 5th May 1900.	* Pagalavadi	2			
		No. 622, dated 23rd June 1900.	* T. Kanappadi enclosure ..				
			Total ..	28	..	..	..
Tanjore ..	18	....	....	..	..	..	..
							Southern
South Canara.	322	No. 482, dated 24th July 1899.	Haunar Magane	3			
	†—1	No. 522, dated 4th August 1899.	Hurabe	1			
	321	No 539, dated 12th August 1899.	Megani valley	26			
		No. 570, dated 29th August 1899.	Tombattu	20			
		No. 664, dated 29th September 1899.	Mavina Kodlu	3			
		No. 705, dated 11th November 1899.	Nananjimale	2			
		No. 765, dated 11th November 1899.	Halakki Hola	1			
		No. 827, dated 6th December 1899.	Doddinamane	5	*Nil.*	Approximately Rs. 3,208.	
		No. 822, dated 6th December 1899.	Mulliar	3			
		No. 851, dated 15th December 1899.	Nerankimale	6			
		No. 862, dated 23rd December 1899.	Kodiamale	2			
		No. 89, dated 3rd February 1900.	Kadimbilla	3			
		No. 99, dated 6th February 1900.	Naravi	101			
		No. 383, dated 23rd April 1900.	* Shiradi extension	1			
		No. 416, dated 4th May 1900.	* Someshwar	37			
			Total ..	214			
North Malabar.	159	....	....	..	..	..	..
	159		Total ..	..	..	3,208	..

* Reservation takes effect from 1900-1901.

† Excluded at Settlement.

incurred on, Forest Settlements during 1899-1900—*cont.*

Areas undergoing settlement.						
At commencement of the year.		Taken in hand during the year.		Expenditure incurred during the year on areas undergoing settlement.		Estimate of areas in which settlement operations have not yet commenced.
Name of tract.	Area.	Name of tract.	Area.	In forest accounts.	In other accounts.	
9	10	11	12	13	14	15
Circle—cont.						
	SQ. MLS.		SQ. MLS.	RS.	RS.	SQ. MLS.
Sengattupatti extension .. Vairisettipalayam Talugai ..						
Total ..	74		..	..	2,419	
....	..	....	..	..	..	
Circle.						
Halesomeshwar	3	Nire	1			
New Someshwar	4	Kanakamajulu	4			
Karadka	5	....	..			
Virakhamba	3	....	..			
Kalanjimale	5	....	..			
Panamberi	1	....	..			
Porkal	7	....	..			
Shibaje	5	....	..			
Miyar	28	....	..			
Nidle	5	....	..			
Kidu	10	....	..			
Kombar	15	....	..			
Mujar	16	....	..			
Konaje	10	....	..			
Kuntur	6	....	..			
Padnur	5	....	..	*Nil.*	Approximately Rs 2,942.	390
Kilarmale	15	....	..			
Balimane	20	....	..			
Total ..	163		5	..	..	
Peria	21	....	..			
Peria extension	2	....	..			
Padri	48	....	..	*Nil.*	Approximately Rupees 3,075.	
Kanoth	40	....	..			
Total ..	111		..	..	..	

Statement showing the Progress made in, and the Expenditure

Name of forest district.	Area already settled at commencement of year.	Areas finally settled during the year.					Entire cost per square mile of areas finally settled during the year.
		Number and date of Government Order according final sanction to the settlement.	Name of forest settled.	Area.	Expenditure incurred during the year on areas finally settled.		
					In forest accounts.	In other accounts.	
1	2	3	4	5	6	7	8
							Southern
South Malabar.	SQ. MLS. 190	....	....	SQ. MLS. ..	RS. ..	RS. ..	RS. ..
			Total ..				
The Nilgiris.	358	No. 295, dated 26th March 1900.	Wenlock Downs	31	..	193	..
		No. 358, dated 20th April 1900.	Kalhatti road No. I ..				
			Do. ,, II ..				
			Kodappamund				
		No. 400, dated 27th April 1900.	Salada				
			Arigodalu				
			Selakallu				
			Bikkimalai				
			Addition to black bridge ..				
			Uradibali				
		No. 361, dated 20th April 1900.	Ammankaval Reserve addition I. *	4	..	..	..
		No. 447, dated 10th May 1900.	Rockwood *				
		No. 480, dated 17th May 1900.	Avarahalla *				
		No. 479, dated 17th May 1900.	Curzon valley II *				
		No. 566, dated 13th June 1900.	Do. I *				
			Vagapanai addition II * ..				
			Tamugai *				
			Ottapattadi *				

* Reservation takes effect from 1900-1901.

incurred on, Forest Settlements during 1899-1900—*cont.*

Areas undergoing settlement.				Expenditure incurred during the year on areas undergoing settlement.		Estimate of areas in which settlement operations have not yet commenced.
At commencement of the year.		Taken in hand during the year.				
Name of tract.	Area.	Name of tract.	Area.	In forest accounts.	In other accounts.	
9	10	11	12	13	14	15
Circle—cont.						
PALGHAT RANGE.	SQ. MLS.		SQ. MLS.	RS.	RS.	SQ. MLS.
Attapadi Valley.						
Block No. I	91	....	..	..	..	33
Do. ,, II						
Do. ,, III						
Do. ,, IV						
Total ..	91		..	..	..	
Thambarakadavu	6	Nirmugihalla	2		2,226	
Ullanni		Gwatkin				
Rajbey		Airlie				
Gathada		Mullisappe				
Halakarai addition I ..		Banahada				
Do. do. II ..		Baraiyade				
Dolphin reserve addition ..		Masikalla				
Karimara		Burnside				
Blackheath		Warwick block No. I ..				
Doddahalla		Do. ,, II ..				
Devalahalla		Do. ,, III ..				
Madidevarmund		....				
Sundinulla No. II		Gudakalhulla addition No. I.				
Pagalamund		Do. do. ,, II.				
Attekallu		Do. do. ,, III.				
Vokkanshola		Udiyarai				
Doddabetta addition I ..		Masikadavu				
Cairn Hill addition		Rallia reserve addition No. II.				
Red Hill No. II		Yettiremara				
Mavada reserve addition ..		Billikottu				
Vagappanai addition I ..		Umarahutti				
Coonoorali No. I		Girigihada				
Do. No. II		Kottibettu				
Cherambadi reserve addition ..		Doddahada				
Ammankaval addition No. I ..		Birgundu				
		Attimara				
		Panadla				
		Okkamunda				
		Bettutti				
		Glencadinne				
		Attukorai				
		Kilingadi				
		Osatti addition No. III ..				
		Koliyada				
		Bear Hill No. II				
		Kottagai				
		Oland				
		Haliada Shola				
		Mayfield				
		Tigerlodge				
		Seleodai No. II				
		Addition to Pilloor Shola ..				
		Kudia Sholai No. I				
		Do. do. ,, II				
		Do. do. ,, III ..				
		Girigihada No. II				
		Bethal addition No. I				
		Ulibatti addition				
		Aduvamara				
		Attuboil addition No. I ..				
		Do. do. ,, II ..				
		Irupporai				

Statement showing the Progress made in, and the Expenditure

Name of forest district.	Area already settled at commencement of year.	Areas finally settled during the year.					
		Number and date of Government Order according final sanction to the settlement.	Name of forest settled.	Area.	Expenditure incurred during the year on areas finally settled.		Entire cost per square mile of areas finally settled during the year.
					In forest accounts.	In other accounts.	
1	2	3	4	5	6	7	8
	SQ. MLS.			SQ. MLS.	RS.	RS.	RS. A. P.
							Southern
			Total ..	35	..	..	..
North Coimbatore.	1,061 ‡ —4	No. 9, dated 8th January 1900.	Cowdalli	49	..	2,419	..
	1,057	No. 428, dated 5th May 1900.	* Sennimalai	2			
			Total ..	51	..	2,419	47 6 10
South Coimbatore.	654	No. 33, dated 20th January 1900.	Nellimalai	3	..	..	12 0 0
			Total ..	3	..	..	12 0 0
Madura ..	572	No. 100, dated 6th February 1900.	Andipatti south ..	10	..	1,210	..
		No. 22, dated 15th February 1900.	Sirumalai north-west slopes ..	9	..		
		No. 118, dated 10th February 1900.	Erakalmalai	6	..		
		No. 307, dated 2nd April 1900.	* Umaiyar	1	..		
			Total ..	26	..	1,210	..
Tinnevelly ..	418	No. 423, dated 5th May 1900.	* Extension No. 3 to Kuttalam reserved forest No. III.	† ..	..	..	..
			Total ..	..	..	..	..

* Reservation takes effect from 1900-1901. † Less than one square mile. ‡ Disafforested.

incurred on, Forest Settlements during 1899-1900—*cont.*

Areas undergoing settlement.				Expenditure incurred during the year on areas undergoing settlement.		Estimate of areas in which settlement operations have not yet commenced
At commencement of the year.		Taken in hand during the year.				
Name of tract.	Area.	Name of tract.	Area.	In forest accounts.	In other accounts.	
9	10	11	12	13	14	15
Circle—cont.						
	SQ. MLS.		SQ. MLS.	RS.	RS.	SQ. MLS.
		Kallukotta				
		Kodera reserve addition No. I				
		Paranjoti				
		Ydayetti addition				
		Atthigarathi Shola addition No. I.				
		Neyyatti addition No. I ..				
		Atthigarathi Shola addition No. II.				
		Nakula				
		Odayaratti				
		Koderu addition No. II ..				
		Do. do. „ III ..				
		Kiloor				
		Doddanni				
		Karavatti				
		Beechworth				
		Beggadu				
		Addition to Gundorai ..				
		Salapani				
		Kumari				
		Extension to cairn hill addition				
Total ..	6	Total ..	2	..	..	
Yedaralli	212	Dodda Induvadi	13	..	..	
Madheswaran Malai	243	Tamarakarai				
Hanur	34	Akkurjorai				
		Siraganhalli Sandalwood plantation.				
Total ..	492		13	..	..	
....	..	Mary or Andiparai estate ..	1	..	..	
Total ..	..		1	..	..	
Kadavumalai	2	....	..	..	1,210	
Koviladi						
Thoppisamimalai	11	....	..	..		
Total ..	13		..	..	1,210	
Vaippar						
Melavittan extension						
Extension to Kuttalam reserved forest block I.	11	....	..	15	2,419	
Extension to Kuttalam reserved forest block II.						
Extension to Krishnapuram reserved forest.						
Total ..	11		..	15	2,419	

APPENDIX A.

Forest Settlement.

PARTICULARS of balance of Lands under Settlement.

District.	Total number and area of blocks brought under settlement up to end of 1899-1900.		Total number and area of blocks constituted finally as reserved forests up to end of 1899-1900.		Balance at end of 1899-1900.	
	Number.	Area.	Number.	Area.	Number.	Area.
1	2	3	4	5	6	7
		SQ. MLS.		SQ. MLS.		SQ. MLS.
Northern Circle.						
Ganjám	47	545 (a) + 2 (d) — 8	41	488	6	51
Vizagapatam	51	265	46	221	5	44
Gódávari	83	958 (a) + 1 (d) — 8	80	944	3	7
Kistna	207 (b) — 3	953 (b) — 5 (d) — 8	162	803	42	137
Kurnool	62 (b) — 1	2,442 (d) — 12 (e) — 1	51	2,075	10	354
Bellary	137	538 (d) — 2 (a) + 10	132	513 (a) + 10	5	23
Anantapur	80	510 (d) — 1 (e) + 1	75	507	5	3
Total, Northern Circle ..	667 (b) — 4	6,211 (a) + 13 (b) — 5 (d) — 39	587	5,551 (a) + 10	76	619
Central Circle.						
Cuddapah	192	2,424 (a) — 15	173	2,028	19	381
Nellore	198	743 (d) — 1	163	667	35	75
Chingleput	199	215 (e) — 1	194	210	5	4
North Arcot	192 (b) — 1	1,235 (a) — 1 (d) — 1	184	1,184 (a) — 1	7	50
South Arcot	157	709	150	685	7	24
Salem	166	1,433 (c) — 1 (e) + 1	147	1,258 (c) — 1	19	176
Trichinopoly	134 (b) — 4	323 (b) — 3 (d) — 2	94	240	36	78
Tanjore	15	18	15	18	..	..
Total, Central Circle ..	1,253 (b) — 5	7,100 (a) — 16 (b) — 3 (c) — 1 (d) — 4	1,120	6,290 (a) — 1 (c) — 1	128	788
Southern Circle.						
South Canara	104	704 (d) — 1	80	497	24	206
North Malabar	22	270	18	159	4	111
South Malabar	27 (b) — 12*	299 (b) — 18	11	190	4	91
The Nilgiris	372	405 (d) — 4	268	389	104	12
North Coimbatore	45	1,594 (a) + 24 (c) — 4 (d) — 1	37	1,110 (c) — 4	8	507
South Coimbatore	19	658	18	657	1	1
Madura	148	609 (a) + 2	145	597	3	14
Tinnevelly	56	429	49	418	7	11
Total, Southern Circle ..	793 (b) — 12	4,968 (a) + 26 (b) — 18 (c) — 4 (d) — 6	626	4,017 (c) — 4	155	953
Grand Total ..	2,713 (b) — 24	18,279 (a) + 23 (b) — 26 (c) — 5 (d) — 49	2,333	15,858 (a) + 9 (c) — 5	359	2,360

* Retained as reserved land in Form No. 44 being leased forests.

(a) Rectification. (b) Initial notifications cancelled. (c) Disafforested.
(d) Excluded at settlement. (e) By rounding off fractions in previous year's figures.

APPENDIX A—*cont.*

Forest Settlement—cont.

Particulars of balance of Lands under Settlement—*cont.*

District.	Classification of balance in columns 6 and 7.											
	Settled and reported on.											
	Notified under section 16 during 1899-1900, but reservation effected only after 30th June 1900.		With Board or Government awaiting publication of notification under section 16.		Returned by the Board for revision and remaining either with Collector, District Forest-officer or Forest Settlement-officer.		Total settled and reported on.		Settled but not reported on.		Settlement proceeding.	
	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.
	8	9	10	11	12	13	14	15	16	17	18	19
Northern Circle.		SQ. MLS.		SQ. MLS.		SQ. MLS.		SQ.MLS.		SQ.MLS.		SQ. MLS.
Ganjám	..	..	1	1	1	1	2	2	4	49	..	..
Vizagapatam	..	..	1	7	3	21	4	28	1	16	..	..
Gódávari	..	..	2	5	..	..	2	5	1	2	..	..
Kistna	4	7	1	2	4	8	9	17	..	..	33	120
Kurnool	..	..	2	30	2	74	4	104	1	48	5	202
Bellary	2	9	..	..	..	..	2	9	..	..	3	14
Anantapur	..	..	..	..	..	..	..	..	..	..	5	3
Total, Northern Circle.	6	16	7	45	10	104	23	165	7	115	46	339
Central Circle.												
Cuddapah	3	32	3	87	2	60	8	179	3	83	8	119
Nellore	2	4	3	5	..	..	5	9	3	3	27	63
Chingleput	..	..	1	2	..	..	1	2	4	2	..	..
North Arcot	2	4	2	20	1	* ..	5	24	..	..	2	26
South Arcot	..	..	4	* ..	1	12	5	12	..	..	2	12
Salem	2	9	2	26	4	46	8	81	..	..	11	95
Trichinopoly	6	4	2	3	1	1	9	8	..	..	27	70
Tanjore	..	..	..	..	..	..	..	..	..	..	..	..
Total, Central Circle.	15	53	17	143	9	119	41	315	10	88	77	385
Southern Circle.												
South Canara ..	2	38	4	45	3	30	9	113	..	..	15	93
North Malabar ..	..	..	3	71	1	40	4	111	..	..	..	..
South Malabar ..	..	..	4	91	..	..	4	91	..	..	..	..
The Nilgiris ..	8	4	9	1	2	* ..	19	5	15	3	70	4
North Coimbatore ..	1	2	1	34	1	212	3	248	..	..	5	259
South Coimbatore ..	..	..	..	..	..	..	..	..	..	..	1	1
Madura	1	1	1	11	..	..	2	12	..	..	1	2
Tinnevelly	1	* ..	..	..	..	..	1	..	6	11	..	..
Total, Southern Circle.	13	45	22	253	7	282	42	580	21	14	92	359
Grand Total, Presidency.	34	114	46	441	26	505	106	1,060	38	217	215	1,083

* Below one square mile.

APPENDIX A—*cont.*

Forest Settlement—cont.

Particulars of balance of Lands under Settlement—*cont.*

District.	Of lands notified under section 4 in the year.																									
	1884–85.		1885–86.		1888–89.		1889–90.		1890–91.		1891–92.		1892–93.		1893–94.		1894–95.		1895–96.		1896–97.		1897–98.		1898–99.		1899–1900.	
	Number.	Area.	Number	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.
	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
Northern Circle.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.
Ganjám ..	1	36	1	6	..	..	..	..	..	..	1	2	2	2	..	..	..	..	..	..	..	..	..	..	..	..	1	* 5
Vizagapatam ..	..	..	..	..	..	..	..	..	..	..	2	37	..	..	..	..	2	§ ..	..	..	..	..	..	..	1	†7	..	‡ ..
Gódávari ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	5	..	..	2	2
Kistna	..	..	..	..	..	..	1	4	..	..	..	..	..	..	..	..	..	..	..	..	3	10	17	59	4	15	17	49
Kurnool ..	..	..	..	..	..	..	..	..	..	..	2	30	..	..	..	..	1	60	..	..	..	..	5	205	2	59	..	..
Bellary	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	2	..	..	2	9	2	12
Anantapur ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	3
Total ..	1	36	1	6	..	..	1	4	..	..	5	69	2	2	..	..	3	60	..	..	4	12	23	269	9	90	27	71
Central Circle.																												
Cuddapah ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	122	3	106	2	17	1	26	7	87	2	23
Nellore	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	12	26	23	49
Chingleput ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..	..	4	3	..	..	..	..
North Arcot ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	11	1	15	3	24	..	..	2	§ ..	..	..
South Arcot ..	..	..	..	..	..	..	..	..	..	..	..	..	1	12	..	..	..	..	1	9	5	3	..	..	..	..	..	..
Salem	..	..	..	..	..	..	1	3	..	..	..	..	..	..	1	6	..	..	2	47	..	..	2	9	4	35	9	76
Trichinopoly ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	13	23	..	..	23	55	..	..
Tanjore ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total ..	..	..	..	..	..	..	1	3	..	..	..	..	1	12	1	6	5	133	8	178	23	67	7	38	48	203	34	148
Southern Circle.																												
South Canara ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	2	1	3	3	60	4	13	3	13	9	110	2	5
North Malabar .	2	69	1	40	..	..	..	..	..	..	..	..	..	..	1	2	..	..	..	..	..	..	..	..	..	..	..	..
South Malabar ..	..	..	..	..	4	91	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
The Nilgiris ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	10	5	23	5	71	2
North Coimbatore ..	..	..	..	..	..	..	..	..	2	458	..	..	..	..	1	34	1	2	..	..	..	..	..	..	..	..	4	13
South Coimbatore ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
Madura	..	..	..	..	..	..	..	..	..	..	3	14	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tinnevelly ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	5	10	..	..
Total ..	2	69	1	40	4	91	..	..	2	458	3	14	..	..	4	38	2	5	3	60	4	13	15	19	37	125	78	21
Grand Total ..	3	105	2	46	4	91	2	7	2	458	8	83	3	14	5	44	10	198	11	238	31	92	45	326	94	418	139	249

* Two blocks were notified under section 4 during the year, but one of about two square miles was notified also under section 16 during the year.

† Rounding off of fractions.

‡ The block of one square mile notified under section 4 was also notified under section 16.

§ Below one square mile.

Appendix B.

Causes of delay in the submission of final Notifications of Forest Reserves.

Districts.	Causes of delay.														
	Notified under section 16 during 1899-1900, but with effect only after 30th June 1900.	With Board or Government awaiting publication of notification under section 16.	Pending preparation of maps.	Awaiting disposal of appeals.	Awaiting expiry of time prescribed for appeal.	Only recently notified or re-notified under section 4.	Awaiting payment of compensation for acquisition or exchange of lands.	Awaiting settlement of claims under enquiry.	Awaiting District Forest-officers' answers to claims, demarcation, &c.	Settled, but final report pending with the Collector or Forest Settlement-officer.	Pending with the Collector or Forest Settlement-officer for revision of notification.	Awaiting replies to references made to Collectors or Board	Awaiting inspection by Forest Settlement-officer.	Other causes, awaiting information from Tahsildars, return of records from the District Court, &c.	Total.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Ganjám	..	1	..	..	1	..	1	..	..	2	..	1	..	..	6
Vizagapatam	..	1	..	..	..	..	..	..	..	..	1	1	..	2	5
Gódávari	..	2	..	..	..	..	..	..	..	1	..	..	..	..	3
Kistna	4	1	..	2	..	14	1	2	1	3	..	3	10	1	42
Kurnool	..	2	1	..	..	..	2	..	..	..	..	2	1	2	10
Bellary	2	..	..	..	..	..	..	..	1	2	..	..	..	..	5
Anantapur	..	..	..	..	..	..	..	..	..	..	..	..	..	5	5
Cuddapah	3	3	..	5	..	..	..	1	..	3	3	..	..	1	19
Nellore	2	3	2	..	..	13	..	2	1	2	..	1	6	3	35
Chingleput	..	1	..	..	..	..	..	..	..	..	3	..	..	1	5
North Arcot	2	2	1	..	..	..	..	..	..	..	..	..	..	2	7
South Arcot	..	4	..	..	..	..	..	..	..	1	2	..	..	..	7
Salem	2	2	..	..	1	7	..	..	3	..	..	..	..	4	19
Trichinopoly	6	2	1	..	3	..	..	11	..	2	3	..	..	8	36
Tanjore	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
South Canara	2	4	..	4	1	..	..	4	..	5	..	1	..	3	24
North Malabar	..	3	..	..	..	..	..	..	..	1	..	..	..	..	4
South Malabar	..	4	..	..	..	..	..	..	..	..	..	..	..	..	4
The Nilgiris	8	9	..	..	6	8	..	63	..	5	2	1	..	2	104
North Coimbatore	1	1	..	..	..	..	..	5	..	..	..	..	..	1	8
South Coimbatore	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1
Madura	1	1	..	..	..	..	..	..	..	..	..	..	..	1	3
Tinnevelly	1	..	..	..	..	..	..	..	..	4	..	..	..	2	7
Total	34	46	5	11	12	43	4	88	6	31	14	10	17	38	359

Appendix C.

Reserved Lands not under Settlement in square miles.

Districts.	Up to 1898-99.	Added during 1898-99.	Added during 1899-1900.	Total.	Transferred for settlement.				Balance remaining "reserved lands" not under settlement.
					Up to 1898-99.	During 1898-99.	During 1899-1900.	Total.	
1	2	3	4	5	6	7	8	9	10
Northern Circle.									
Ganjám	563	(a) — 18 (b) — 1 (d) — 6	(a) + 7 (b) — 2 (d) — 8	539	556 (b) — 8	(a) — 18	(a) + 7 (a) + 2	539	..
Vizagapatam ..	413	(b) — 5 (c) — 54	..	354	256	8	1	265	89
Gódávari	970	(b) — 14	(a) + 2 (a) + 1 (b) — 8	951	956 (b) — 8	..	(a) + 2 (a) + 1	951	..
Kistna	1,162	(a) + 2 (b) — 12 (c) — 9 (d) + 1	(a) + 7 (c) — 15 (b) — 8	1,128	882 (b) — 8 (c) — 5	21 (a) + 1	49	940	188
Kurnool	2,670	242 (b) — 12	(b) — 12 (c) — 7	2,881	2,883 (d) — 12 (e) — 1	59	..	2,429	452
Bellary	615	27 (b) — 3 (c) — 34 (d) + 6	4 (b) — 2 (c) — 7 (d) + 10 (e) — 1	615	496 (b) — 2 (d) + 10	30	12	546	69
Anantapur.. ..	512	(b) — 5	3 (b) — 1 (c) + 1	510	507 (b) — 1 (c) + 1	..	3	510	..
..	6,905	105	— 32	6,978	6,002	118 (a) — 17	74 (a) + 3	6,180	798
Central Circle.									
Cuddapah	2,400	65 (a) — 2 (c) — 10	23 (a) — 25	2,451	2,295	108 (a) — 2	23 (a) — 15	2,409	42
Nellore	680	40 (b) — 9 (c) — 4 (e) + 1	49 (b) — 1 (e) — 1	755	654 (b) — 1	40	49	742	13
Chingleput ..	215	..	(e) — 1	214	215 (e) — 1	..	..	214	..
North Arcot ..	1,129	1 (a) + 8 (d) + 98	(b) — 1 (d) — 1	1,234	1,226 (b) — 1 (d) — 1	1 (a) + 8	..	1,233	1
South Arcot ..	711	(c) — 2	..	709	709	..	..	709	..
Salem	1,396	30 (c) — 3	33 (c) — 4 (e) + 1	1,453	1,322 (c) — 1 (e) + 1	35	76	1,433	20
Trichinopoly ..	278	49 (b) — 1 (c) — 3	(b) — 2 (c) — 3	318	267 (b) — 2 (c) — 3	56	..	318	..
Tanjore	18	..	..	18	18	..	..	18	..
Total ..	6,827	258	+ 67	7,152	6,697	240 (a) + 6	148 (a) — 15	7,076	76
Southern Circle.									
South Canara ..	1,123	(a) — 2 (b) — 5 (c) — 21	(b) — 1 (c) — 1	1,093	583 (b) — 1	116	5	703	390
North Malabar ..	274	(c) — 2	..	272	270	..	..	270	2
South Malabar ..	328	..	..	328	299 (c) — 18	..	..	281	47
The Nilgiris ..	483	11 (c) — 3	2 (b) — 4	489	392 (b) — 4	11	2	401	88
North Coimbatore.	1,619	(c) — 1	13 (a) + 24 (b) — 1 (c) — 15	1,639	1,581 (b) — 1 (c) — 4	..	13 (a) + 24	1,613	26
South Coimbatore .	657	..	1	658	657	..	1	658	..
Madura	618	(b) — 4	(a) + 2	611	609	..	(a) + 2	611	..
Tinnevelly ..	424	6 (c) — 2 (e) + 1	..	429	421	8	..	429	..
Total ..	5,521	— 22	+ 20	5,519	4,784	135	21 (a) + 26	4,966	553
Grand Total ..	19,253	341	55	19,649	17,483	493 (a) — 11	243 (a) + 14	18,222	1,427

(a) By rectification. (b) At settlement. (c) Unreserved or disafforested.
(d) By rectification of areas already constituted reserved forests.
(e) By rounding off fractions in previous years' returns.

FORM No. 46.

Forest Department, Madras Presidency.

RECORD of Demarcation and Maintenance of Boundaries.

District.	Length of boundaries artificially demarcated during the year.	Length of previously existing boundaries repaired.	Length of previously existing boundaries not repaired.	Total length of artificially marked boundaries at the close of the year.	Length of boundaries still to be demarcated at close of year.	Length of natural boundaries not requiring artificial marks.	Total length of boundaries at the close of the year.	Expenditure on demarcation during the year. On new work.	Expenditure on demarcation during the year. On repairs.
1	2	3	4	5	6	7	8	9	10
Northern Circle.	MILES.	MILES.	MILES.	MILES.	MILES.	MILES.	MILES.	RS.	RS.
Ganjám	150	31	484	665	333	149	1,147	(a)1,372	31
Vizagapatam	63	Not given.	285	348	152	Not known	500	(a)1,763	774
Gódávari	124	200 (g) 388	260	972	117	306	1,395	(a)2,009	(a) 8,288 (f) 581
Kistna	139	89	858	1,086	42	117	1,245	(a)2,758	(a) 537
Kurnool	107	..	634	741	622	157	1,520	1,888	(d)+1,278 (e) 749
Bellary	92	198	1,177	1,467	60	..	1,527	484	423
Anantapur	56	25	1,138	1,219	..	..	1,219	(a) 306	233
Total, Northern Circle	731	931	4,836	6,498	1,326	729	8,553	10,580	12,894
Central Circle.									
Cuddapah	182 (e) 9	95	2,608	2,894	49	*Nil.*	2,943	(e)1,185	213 (d) — 37
Nellore	250	..	1,331	1,581	74	86	1,741	(a)1,924	(d)+ 418
Chingleput	26	..	863	889	..	..	889	236	(f) 468
North Arcot	24 (e)25	11 (g)1,914	155	2,129	..	44	2,173	(a) 528	(a) 39 97
South Arcot	90	..	2,063	2,153	185	..	2,338	(a)1,930	..
Salem	70	390 (g) 621	1,121	2,202	221	68	2,491	195	(d)— 447 280
Trichinopoly	15	(g) 296	243	554	462	..	1,016	97	..
Tanjore	..	..	79	79	..	..	79	..	..
Total, Central Circle	691	3,327	8,463	12,481	991	198	13,670	6,095	1,365
Southern Circle.									
South Canara	353	20	1,680	2,053	..	110	2,163	4,487	200
Malabar, North	17	..	529	546	529	2	1,077	214	(d) 36
Do. South	..	..	119	119	87	112	318	..	..
The Nilgiris	..	100	953	1,053	15	232	1,300	..	(a) 1,865
Coimbatore, North	34	225	314	573	..	168	741	556	(a) 1,011
Do. South	6	(g) 3	487	496	8	77	581	106	(d) + 14
Madura	..	37 (g) 487	1,004	1,528	30	139	1,697	..	(a) 1,058
Tinnevelly	27	4	402	433	95	171	699	133	73
Total, Southern Circle	437	876	5,488	6,801	764	1,011	8,576	5,496	4,257
Grand Total, Presidency	1,859	5,134	18,787	25,780	3,081	1,938	30,799	22,171	18,516

N.B.—Boundaries include, besides the outer perimeter, the limits of enclosures of private or other lands within the forests, but not the limits of sub-divisions, such as blocks, compartments, coupes.

(*a*) Includes cost of construction or repair of cairns.

(*b*) Includes cost of erecting cairns as well as pay of demarcation watchers.

(*c*) Includes amount spent in cutting working-circle lines.

(*d*) Added or deducted as per Accountant-General's audited figures.

(*e*) Rectification of boundaries.

(*f*) Cost of temporary establishment.

(*g*) Repairs done by existing establishment without cost.

ANNUAL FORM No. 47.

Forest Department, Madras Presidency

STATEMENT of Forest Areas surveyed and under survey during the year 1899–1900.

Districts.	Areas surveyed and under survey during the year 1899–1900.															
	Special Surveys—Maps on 4-inch scale or over by Survey of India Department or Madras Survey.								Ordinary, included in district surveys.							
	With interior details.					Boundary surveys.			With interior details.					Boundary surveys.		
	With details of growing stock.		Without details of growing stock.		Total cost.	Previous.	Of year.	Total cost.	With details of growing stock.		Without details of growing stock.		Total cost.	Previous.	Of year.	Total cost.
	Previous.	Of year.	Previous.	Of year.					Previous.	Of year.	Previous.	Of year.				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	RS.	L. MLS.	L. MLS.	RS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	RS.	L. MLS.	L. MLS.	RS.
Ganjám	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Vizagapatam	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gódávari	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kistna	..	..	..	..	..	437	41	22	18	..	331	..	..	288	145	1,751
Kurnool	..	..	618	413	71,210	882	8	..	..	..	..	..	..	..	..	..
Bellary	..	..	..	..	..	..	..	..	..	..	523	‡ ..	..	..	..	..
Anantapur	..	..	168	..	‡ ..	..	..	..	..	..	188	‡ ..	..	..	..	..
Cuddapah	..	..	340	388	20,685	332	149	..	..	..	..	..	..	..	..	..
Nellore *	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chingleput	..	..	..	..	..	..	..	..	..	..	115	..	587	..	..	..
North Arcot	..	..	1,085	..	..	..	..	..	..	..	..	..	..	..	..	..
South „	..	..	† 229	..	8,829	82	..	..	..	..	..	..	..	..	..	..
Salem	..	..	1,129	..	33,354	..	..	..	..	..	..	..	..	..	..	..
Trichinopoly	..	..	66	..	25,000	6	..	..	..	..	..	..	..	171	..	..
Tanjore	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
South Canara	..	..	..	392	..	..	98	3,971	..	..	..	..	..	..	..	..
North Malabar	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
South „	6	..	33	..	..	..	..	..	..	..	1	..	..	..	..	..
The Nilgiris	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
North Coimbatore.. ..	..	..	925	723	29,288	263	36	..	..	..	..	..	..	..	..	..
South „	..	..	652	..	..	..	..	..	..	..	2	3	..	..	..	..
Madura	..	..	572	25	..	..	..	..	..	..	..	..	..	..	..	..
Tinnevelly	..	..	410	..	..	..	..	..	..	..	..	..	..	..	..	..
Total ..	6	..	6,227	1,941	1,88,366	2,002	332	3,993	18	..	1,160	3	587	459	145	1,751

N.B.—The instructions regarding the preparation of this form have not been attended to in most of the districts and the entries are not therefore accurate.

* The Collector has sent a *nil* statement. † This does not include the cost of 99 miles, information in regard to which is not available. ‡ Not known or reported.

Statement of Forest Areas surveyed and under survey during the year 1899–1900—*cont.*

District.	Areas surveyed and under survey during the year 1899–1900—*cont.*								Areas remaining to be taken under survey.	Total reserved forest area at end of year, as per Form No. 44.	Cost.		
	Chain and compass or other surveys by local officers.												
	With interior details.					Boundary surveys.							
	4-inch or over.		Under 4-inch.		Total cost.						Previous.	Of year.	Entire cost of all surveys to end of the year.
	Previous.	Of year.	Previous.	Of year.		Previous.	Of year.	Total cost.					
	18	19	20	21	22	23	24	25	26	27	28	29	30
	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	RS.	L. MLS.	L. MLS.	RS.	SQ. MLS.	SQ. MLS.	RS.	RS.	RS.
Ganjám	..	..	..	..	..	726	158	12,753	..	488	11,294	1,459	12,753
Vizagapatam	14	..	..	..	..	15	26	..	207	221	..	..	..
Gódávari	..	..	..	..	..	144	353	1,742	944	944	1,215	1,742	2,957
Kistna	4	..	..	..	..	177	145	..	450	803	2,904	1,773	4,677
Kurnool	5	..	..	..	254	126	..	1,713	969	2,075	58,181	14,996	73,177
Bellary	..	..	..	..	..	..	..	..	..	523	496	..	496
Anantapur	154	3	..	..	..	..	..	..	..	507	..	..	..
Cuddapah	..	..	..	..	..	..	..	..	..	2,028	29,827	20,685	50,512
Nellore *	..	..	..	..	..	..	..	..	..	667	..	..	..
Chingleput	..	3	..	..	..	..	..	..	92	210	587	..	587
North Arcot	98	..	..	..	..	..	37	..	..	1,183	..	..	..
South „	6	..	..	..	52	..	..	..	440	685	† 8,880	..	8,880
Salem	..	..	..	..	..	..	5	251	128	1,257	33,103	251	33,354
Trichinopoly	1	..	..	..	..	..	..	..	..	240	25,000	..	25,000
Tanjore	18	..	..	..	..	..	..	..	..	18	..	..	..
South Canara	..	..	..	..	..	..	..	..	..	497	..	3,971	3,971
North Malabar	..	..	..	..	..	37	..	728	159	159	728	..	728
South „	..	..	..	..	..	150	..	610	150	190	778	..	778
The Nilgiris	..	..	..	..	..	..	..	..	389	389	..	..	..
North Coimbatore ..	..	..	..	..	..	..	..	..	..	1,106	37,635	29,288	66,923
South „ ..	..	..	..	..	..	..	..	..	..	657	..	..	..
Madura	..	..	..	..	..	..	..	..	..	597	1,148	..	1,148
Tinnevelly	..	..	..	..	..	..	..	..	8	418	..	..	..
Total ..	300	6	..	..	306	1,375	724	17,797	3,936	15,862	2,11,776	74,165	2,85,941

N.B.—The instructions regarding the preparation of this form have not been attended to in most of the districts and the entries are not therefore accurate.

* The Collector has sent a *nil* statement.

† Revised figure.

Appendix D.

Abstract of District Reports in regard to the maintenance of Maps in accordance with the provisions of section 81 of the Forest Code.

Northern Circle.

Ganjám.—Final maps have been prepared for all reserved forests, in addition to 25 fire conservancy maps.

Vizagapatam, Bellary, and Anantapur.—The district, range and reserve maps are maintained as usual.

Gódávari.—The district map (1″ = 4 miles) is maintained as usual; range maps and separate maps for each reserve are also maintained.

Kistna.—Final maps have been prepared in respect of an area of 555 square miles of reserved forests.

Kurnool.—Maps maintained in previous years have been posted up to date. Sketch-maps to accompany notifications under sections 4 and 16 have also been prepared during the year. No separate working-circle maps have yet been prepared.

Central Circle.

Cuddapah.—The district and range maps prescribed in the Forest Code are maintained and posted up to date. Eleven new taluk maps received from the Madras Survey office have been posted and supplied to the Range officers in lieu of the old ones reported to be useless.

Nellore.—Copies of sketches of final maps have been prepared and supplied to Range officers during the year.

Chingleput.—The district and taluk maps and atlas sheets have been posted up to date. Thirty-two block maps have been prepared for working plans in the Tiruvallúr and Chingleput ranges besides four block maps for the Forest Settlement-officer.

North Arcot.—The district map (1″ =4 miles) showing reserved forests, &c, is maintained up to date. Copies of taluk maps posted up to date have been distributed to the Range officers concerned, while maps of blocks covering an area of 92 square miles have also been issued to Range officers.

South Arcot.—Old sketches have been revised and posted up to date. Outline sketches have been supplied to Range officers for preparing estimates and posting final demarcation.

Salem.—The district and range maps have been maintained as usual. Maps have been prepared by the Survey of India for 107 reserves.

Trichinopoly.—The district and taluk maps are maintained and posted up to date. Maps for the hill reserves in the Musiri and Perambalúr ranges have been received from the Survey of India Party during the year. No working-plans have been prepared during the year.

Tanjore.—The district, the range reference and the working-plan maps are maintained as usual.

Southern Circle.

South Canara.—The district reference map is posted up to date and maps are maintained for nearly all reserved forests.

North Malabar.—District reference map is kept up to date. Maps of six reserves have been received printed from the Survey office during the year.

South Malabar.—The district reference map has been posted up to 30th June 1900. Reserve and range reference maps have also been maintained. There are working-circle maps for the area for which working-plans were prepared.

The Nilgiris.—The office reference map and range reference maps are maintained and posted up to date. Reserve maps for Mudumalai, Kombarakolli and Benne forests are also kept up, while settlement maps for each village in the district are duly maintained with all the reserves indicated thereon. Working-circle plans are maintained for nine plantations in the district.

North Coimbatore.—The office reference map and topographical sheets used as range reference maps are being maintained and posted up to date. Reserve maps have been prepared for eight reserves in the Erode taluk and are under preparation for fifteen additional reserves. In the remaining cases the settlement map and the topographical sheets have been supplied to Range officers to serve as reserve maps until the survey is complete.

South Coimbatore.—District reference map is maintained in duplicate. The taluk maps have been utilized for range reference maps and most of the particulars relating to the five ranges have been entered. Survey of India maps are available for all reserves, but some details have yet to be entered. Separate maps are maintained for each of the working-circles.

Madura.—The six reserve maps referred to in the last year's report as having been sent to the Survey office for reproduction have not yet been received. There are Survey of India maps for almost all reserves, but some details still remain to be entered therein.

Tinnevelly.—The district reference map has been posted up to 30th June 1900. Range officers are supplied with the India Survey maps of the existing reserves and with the taluk maps in which the reserves have been incorporated. The maps of the recently notified blocks will shortly be sent to the survey office for supply of necessary spare copies.

APPENDIX E.

STATEMENT showing Area of Reserved Forests for which final Maps have been prepared.

Districts.	Area of reserved forests.	Area of reserved forests for which final maps have been prepared.
	SQ. MILES.	SQ. MILES.
Ganjám	488	488
Vizagapatam	221	14
Gódávari	944	(a) ..
Kistna	803	555
Kurnool	2,075	..
Bellary	523	355
Anantapur	507	494
Cuddapah	2,028	1,967
Nellore	667	657
Chingleput	210	(b) 210
North Arcot	1,183	(c) 877
South Arcot	685	685
Salem	1,257	1,019
Trichinopoly	240	81
Tanjore	18	18
South Canara	497	482
North Malabar	159	152
South Malabar	190	40
The Nilgiris	389	..
North Coimbatore	1,106	(d) 7
South Coimbatore	657	654
Madura	597	585
Tinnevelly	418	410
Total ..	15,862	9,760

(a) Twenty-one reserved forests in the district are reported to have been surveyed by the Forest Surveyor. As some of the original sketches which constituted the settlement maps are very rough, they are undergoing revision. Three hundred and fifty-one miles of boundary line were surveyed, and the Coringa coast is being surveyed by a special officer deputed by Government for the work.

(b) These are only copies of maps attached to the final notifications, but are, however, only approximately correct wherever the boundaries go through unsurveyed areas.

(c) Final maps have been prepared by the Madras Survey office for 35 square miles and by the Survey of India Party for 842 square miles.

(d) Maps are being prepared by the Survey of India Party.

Annual Form No. 48.

Forest Department, Madras Presidency.

Progress made in Working-Plans during 1899–1900.

District.	Areas for which working-plans have been completed and approved by the Board.		Areas for which working-plans are being compiled or have been compiled but not sanctioned.		Areas for which working-plans have still to be taken in hand.	Total forest area as in Form No. 44.	Entire cost per square mile of working-plans completed.	* Remarks.
	At commencement of year.	During year.	At commencement of year.	During year.				
1	2	3	4	5	6	7	8	9
Northern Circle.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	RS. A P.	RS.
Ganjám	..	..	21	..	518	539	..	..
Vizagapatam	..	..	..	5	349	354	..	..
Gódávari	3	49	111	137	651	951	..	110
Kistna	8	..	768	..	352	1,128	..	..
Kurnool	..	..	..	..	2,881	2,881	..	..
Bellary	12	..	..	..	603	615	..	..
Anantapur	..	..	1	..	509	510	..	..
Total ..	23	49	901	142	5,863	6,978	..	† 110
Central Circle.								
Cuddapah	3	..	..	..	2,448	2,451	..	36
Nellore	..	108	66	302	279	755	2 1 0	600
Chingleput	..	..	..	34	180	214	..	..
North Arcot	..	..	..	..	1,234	1,234	..	..
South Arcot	..	..	99	..	610	709	..	..
Salem	1	..	..	276	1,176	1,453	..	28
Trichinopoly	1	..	33	..	284	318	..	63
Tanjore	4	..	4	..	10	18	..	..
Total ..	9	108	202	612	6,221	7,152	..	727
Southern Circle.								
South Canara	1	..	..	..	1,092	1,093	..	..
North Malabar	..	..	28	..	244	272	..	90
South Malabar	34	..	24	..	270	328	99 0 0	..
The Nilgiris	6	..	..	14	469	489	56 0 0	282
North Coimbatore ..	..	62	..	..	1,577	1,639	..	..
South Coimbatore ..	10	..	7	..	641	658	..	..
Madura	..	..	248	..	363	611	1 5 0	182
Tinnevelly	56	..	..	..	373	429	49 0 0	..
Total ..	107	62	307	14	5,029	5,519	..	554
Grand Total ..	139	219	1,410	768	17,113	19,649	..	1,391

C

* The figures in column 9 represent the cost incurred during the year under A-VIII (*d*).

† This is exclusive of the lump sum of Rs. 1,543 spent under direction Northern Circle A-VIII (*d*).

ANNUAL.
Forest Department,
Communications

District.	New work undertaken during the year.					
	Buildings.		Roads and paths.			Total expenditure on new work.
	Description of building.	Expenditure incurred.	Road or path and object of the same.	Length of road or path.	Expenditure incurred.	
1	2	3	4	5	6	7
						Northern
		RS.		MLS.	RS.	RS.
Direction ..	....	..	....	..	..	..
Ganjám ..	(*a*) Head-quarter houses ..	175	(*a*) Cart roads	1	46	..
	(*c*) Houses for subordinate establishments	215				
	Total, Ganjám ..	390	Total ..	1	46	436
Vizagapatam.	(*b*) Rest-houses	244	(*a*) Cart roads	9	1,021	..
	(*c*) Houses for subordinate establishments	220				
	Total, Vizagapatam ..	464	Total ..	9	1,021	1,485
Gódávari ..	(*c*) Houses for subordinate establishments	356	(*a*) Cart roads	22	5,079	..
	(*d*) Others	122				
	Total, Gódávari ..	478	Total ..	22	5,079	5,557
Kistna ..	....	..	(*a*) Cart roads	24	1,456	..
	Total, Kistna ..	..	Total ..	24	1,456	1,456
Kurnool ..	(*b*) Rest-houses	85	(*a*) Cart roads	14	2,605	..
	(*c*) Houses for subordinate establishments	203				
	Total, Kurnool ..	288	Total ..	14	2,605	2,893
Bellary ..	(*b*) Rest-houses	1,142	(*b*) Bridle-paths	4	126	..
	Total, Bellary ..	1,142	Total ..	4	126	1,268
Anantapur ..	(*b*) Rest-houses	1,531	(*a*) Cart roads	4	286	..
			(*b*) Bridle-paths	17	681	..
	Total, Anantapur ..	1,531	Total ..	21	967	2,498
Total, Northern Circle.	(*a*) Head-quarter houses ..	175	(*a*) Cart roads	74	10,493	..
	(*b*) Rest-houses	3,002	(*b*) Bridle-paths	21	807	..
	(*c*) Houses for subordinate establishments ..	994				
	(*d*) Others	122				
	Total, Northern Circle ..	4,293	Total ..	95	11,300	15,593

ROYAL ASIATIC SOCIETY OF GREAT BRITAIN & IRELAND

FORM No. 49.
Madras Presidency.
and Buildings.

Repairs executed during the year.

Buildings. Nature of repairs.	Expenditure incurred.	Roads and paths. Nature of repairs.	Length repaired.	Expenditure incurred.	Total expended on repairs.
8	9	10	11	12	13
Circle.					
	RS.		MLS.	RS.	RS.
(*a*) Head-quarter houses	59	(*a*) Cart roads	..	237	296
(*c*) Houses for subordinate establishments	1,502	(*a*) Cart roads	6	283	..
		(*b*) Bridle-paths	77	363	..
			83	646	2,307
Add pay of watchers ..	159	Add A-VII (*c*) ..	..	..	280
Total ..	1,661	Total ..	..	..	2,587
(*a*) Head-quarter houses	40	(*a*) Cart roads	7	209	..
(*b*) Rest-houses	727				
(*c*) Houses for subordinate establishments	52				
(*d*) Others	28				
	847		7	209	1,175
Add pay of watchers ..	119	Add A-VII (*c*) ..	..	..	97
Total ..	966	Total ..	..	..	1,272
(*a*) Head-quarter houses	51	(*b*) Bridle-paths	3	37	..
(*b*) Rest-houses	272				
(*d*) Others	6				
	329		3	37	1,759
Add pay of watchers ..	1,393	Add A-VII (*c*) ..	..	..	1,110
Total ..	1,722	Total ..	..	..	2,869
(*a*) Head-quarter houses	8	(*a*) Cart roads	4	50	..
(*b*) Rest-houses	290	(*b*) Bridle-paths	1	50	..
(*c*) Houses for subordinate establishments	47				
	345				
Deduct amount recovered from subordinates responsible for the loss of doors of a range camp	7		5	100	438
		Add A-VII (*c*) ..	..	..	922
Total ..	338	Total ..	..	..	1,360
(*a*) Head-quarter houses	39				
(*b*) Rest-houses	1,994				
(*d*) Others	420				
	2,453		..	..	2,954
Add pay of temporary establishments ..	501	Add A-VII (*c*) ..	..	..	750
Total ..	2,954	Total ..	..	..	3,704
(*b*) Rest-houses	5		..	..	..
(*c*) Houses for subordinate establishments	2		..	..	7
Total ..	7	Total ..	..	..	7
(*a*) Head-quarter houses	76	(*a*) Cart roads	2	90	..
(*b*) Rest-houses	24	(*b*) Bridle-paths	..	16	..
(*d*) Others	70				
	170				
Add pay of watchers ..	581				
Total ..	751	Total ..	2	106	857
(*a*) Head-quarter houses	273	(*a*) Cart roads	19	885	..
(*b*) Rest-houses	3,312	(*b*) Bridle-paths	81	450	..
(*c*) Houses for subordinate establishments	1,603				
(*d*) Others	524				
	5,712		100	1,335	9,793
Add pay of watchers ..	* 2,746	Add A-VII (*c*) ..	..	..	3,159
Total ..	8,458	Total ..	100	1,335	12,952

* This amount excludes Rs. 7 recovered from subordinates responsible for the loss of doors of a range camp in the Kistna district.

Communications.

District.	Buildings.		Roads and paths.			Total expenditure on new work.
	Description of building.	Expenditure incurred.	Road or path and object of the same.	Length of road or path.	Expenditure incurred.	
1	2	3	4	5	6	7
						Central
		RS.		MLS.	RS.	RS.
Direction ..	....	..	....	..	..	..
Cuddapah ..	(*d*) Others	120	(*a*) Cart roads	6	84	..
	Total, Cuddapah ..	120	Total ..	6	84	204
Nellore ..	....	..	....	..	..	..
	Total, Nellore ..	..	Total ..	..	..	..
Chingleput ..	(*b*) Rest-houses	1,001	(*a*) Cart roads	3	137	..
	(*d*) Others	77				
	Total, Chingleput ..	1,078	Total ..	3	137	1,215
North Arcot ..	(*a*) Head-quarter houses ..	1,822	(*a*) Cart roads	2	2,450	..
	(*c*) Houses for subordinate establishments	219				
	(*d*) Others	343				
	Total, North Arcot ..	2,384	Total ..	2	2,450	4,834
South Arcot ..	(*b*) Rest-houses	33	....	..	..	..
	Total, South Arcot ..	33	Total ..	..	..	33
Salem ..	(*a*) Head-quarter houses ..	119	(*a*) Cart roads	* ..	714	..
	(*b*) Rest-houses	1,981				
	(*c*) Houses for subordinate establishments	85				
	(*d*) Others	174				
	Total, Salem ..	2,359	Total ..	..	714	3,073
Trichinopoly ..	....	..	....			
	Total, Trichinopoly ..	..	Total ..	..	..	..
Tanjore ..	....	..	....	..	..	..
Total, Central Circle.	(*a*) Head-quarter houses ..	1,941	(*a*) Cart roads	11	3,385	..
	(*b*) Rest-houses	3,015				
	(*c*) Houses for subordinate establishments	304				
	(*d*) Others	714				
	Total, Central Circle ..	5,974	Total ..	11	3,385	9,359

* Length of miles not stated.

and Buildings—*cont.*

Repairs executed during the year.

Buildings.		Roads and paths.			Total expended on repairs.
Nature of repairs.	Expenditure incurred.	Nature of repairs.	Length repaired.	Expenditure incurred.	
8	9	10	11	12	13
Circle.					
	Rs.		MLS.	Rs.	Rs.
(*a*) Head-quarter houses	11	....	..	..	11
(*a*) Head-quarter houses	119	(*a*) Cart roads	3	47	..
(*b*) Rest-houses	494	(*b*) Bridle-paths	5	181	..
(*c*) Houses for subordinate establishments	26				
(*d*) Others	460				
	1,099		8	228	1,590
Add pay of watchers ..	263	Add A-VII (*c*) ..	..	..	327
Total ..	1,362	Total ..	..	..	1,917
(*a*) Head-quarter houses	120	....	..	..	..
(*b*) Rest-houses	167				
(*d*) Others	142				
	429				
Add pay of watchers ..	82				
Total ..	511+6*	Total ..	..	..	517
(*b*) Rest-houses	204	(*a*) Cart roads	5	150	419
(*c*) Houses for subordinate establishments	60				
(*d*) Others	5	Add A-VII (*c*) ..	..	..	220
Total ..	269	Total ..	..	..	639
(*a*) Head-quarter houses	54	(*a*) Cart roads	105	832	..
(*b*) Rest-houses	1,372	(*c*) Others	..	335	..
(*d*) Others	43				
	1,469		105	1,167	3,512
Add pay of temporary establishments.	876	Add A-VII (*c*) ..	..	..	153
Total ..	2,345	Total ..	..	..	3,665
(*b*) Rest-houses	8	(*a*) Cart roads	..	262	..
	8		..	262	610
Add pay of watchers ..	340	Add A-VII (*c*) ..	..	..	26
Total ..	348	Total ..	..	..	636
(*a*) Head-quarter houses	96	....	..	..	508
(*b*) Rest-houses	309				
(*d*) Others	103				
		Add A-VII (*c*) ..	..	..	246
Total ..	508	Total ..	..	..	754
(*b*) Rest-houses	† 298	(*a*) Cart road	4	40	..
Total ..	298	Total ..	4	40	338
(*b*) Rest-houses	39	...	..	..	39
(*a*) Head-quarter houses	400	(*a*) Cart roads	117	1,331	..
(*b*) Rest-houses	2,891	(*b*) Bridle-paths	5	181	..
(*c*) Houses for subordinate establishments	86	(*c*) Others	..	335	..
(*d*) Others	759				
	4,136		122	1,847	7,544
Add pay of watchers ..	1,561	Add A-VII (*c*) ..	..	..	972
Total ..	5,697	Total ..	..	..	8,516

* Added as per the Accountant-General's audited figures.
† Includes Rs. 23 transferred from advances by the Accountant-General.

Communications

District.	New work undertaken during the year.					Total expenditure on new work.
	Buildings.		Roads and paths.			
	Description of building.	Expenditure incurred.	Road or path and object of the same.	Length of road or path.	Expenditure incurred.	
		RS.		MLS. F.	RS.	RS.
1	2	3	4	5	6	7
Southern						
South Canara.	(*b*) Rest-houses	149		..	..	..
	(*c*) Houses for subordinate establishments	38		..	..	..
	Total, South Canara ..	187	Total ..	..	..	187
North Malabar.	(*a*) Head-quarter houses ..	768	(*b*) Bridle-path	1 0	230	..
	(*c*) Houses for subordinate establishments	69				
	(*d*) Others	10				
	Total, North Malabar ..	847	Total ..	1 0	230	1,077
South Malabar.	(*a*) Head-quarter houses ..	1,701	(*a*) Cart roads	4 0	471	..
	(*b*) Rest-houses	287	(*c*) Others	..	104	..
	Total, South Malabar ..	1,988	Total ..	4 0	575	2,563
The Nilgiris ..	(*a*) Head-quarter houses ..	1,292	(*a*) Cart roads	1 0	269	..
	(*b*) Rest-houses	29				
	Total, The Nilgiris ..	1,322	Total ..	1 0	269	1,591
North Coimbatore.	(*a*) Head-quarter houses ..	461	(*a*) Cart roads	35 0	1,587	..
	(*b*) Rest-houses	724				
	(*d*) Others	* 3,764				
	Total, North Coimbatore ..	4,949	Total ..	35 0	1,587	6,536
South Coimbatore.	(*a*) Head-quarter houses ..	860	(*b*) Bridle-path	..	310	..
	(*b*) Rest-houses	397	(*c*) Others	..	215	..
	(*c*) Houses for subordinate establishments	463				
	(*d*) Others	189				
	Total, South Coimbatore ..	1,909	Total ..	..	525	2,434
Madura ..	(*b*) Rest-houses	938	(*b*) Bridle-paths	13 0	106	..
	Total, Madura ..	938	Total ..	13 0	106	1,044

* Cost incurred in the construction of a godown for storing minor forest produce at Satyamangalam.

and Buildings—*cont.*

Repairs executed during the year.						
Buildings.			Roads and paths			Total expended on repairs.
Nature of repairs.	Expenditure incurred.		Nature of repairs.	Length repaired.	Expenditure incurred.	
8	9		10	11	12	13
Circle.						
	Rs.			Mls.	Rs.	Rs.
(*a*) Head-quarter houses	19	(*a*) Cart roads		9	39	..
(*b*) Rest-houses	24	(*b*) Bridle-paths		2	2	..
(*c*) Houses for subordinate establishments	57					
(*d*) Others	34					
				11	41	175
		Add A-VII (*c*) ..		..	..	141
Total ..	134	Total ..		..	..	316
(*a*) Head-quarter house	78	(*a*) Cart roads		103	1,592	2,217
(*b*) Rest-houses	547					
		Add A-VII (*c*) ..		..	..	638
Total ..	625	Total ..		..	..	2,855
(*a*) Head-quarter houses	6	(*a*) Cart roads		10	217	
(*b*) Rest-houses	192	(*b*) Bridle-paths		11	92	
(*c*) Houses for subordinate establishments	178			21	309	685
		Add A-VII (*c*) ..		..	..	89
Total ..	376	Total ..		..	..	774
(*d*) Others	1,080	(*a*) Cart roads		61	1,264	..
				61	1,264	2,344
		Add A-VII (*c*) ..		..	..	180
Total ..	1,080	Total ..		..	..	2,524
(*a*) Head-quarter houses	101	(*a*) Cart roads		37	3,046	..
(*b*) Rest-houses	125	(*b*) Bridle-paths		5	8	..
(*c*) Houses for subordinate establishments	10					
(*d*) Others	29					
	265					
Add pay of watchers ..	393					
Total ..	658	Total ..		42	3,054	3,712
		(*a*) Cart roads		21	1,670	..
(*a*) Head-quarter houses	230					
(*b*) Rest-houses	849			21	1,670	3,024
(*d*) Others	* 275	Add A-VII (*c*) ..		..	..	3,654
	1,354	Total ..		..	..	6,678
(*a*) Head-quarter houses	470	(*a*) Cart roads		8	199	..
(*b*) Rest-houses	51	(*c*) Others		..	60	..
(*d*) Others	209					
	730			8	259	1,336
Add pay of watchers ..	347	Add A-VII (*c*) ..		..	..	111
Total ..	1,077	Total ..		..	..	1,447

* Added or deducted as per Accountant-General's audited figures.

Communications

District.	New work undertaken during the year. Buildings — Description of building.	Buildings — Expenditure incurred.	Roads and paths. — Road or path and object of the same.	Roads and paths. — Length of road or path.	Roads and paths. — Expenditure incurred.	Total expenditure on new work.
1	2	3	4	5	6	7
						Southern
		Rs.		MLS.	Rs.	Rs.
Tinnevelly ..	(b) Rest-houses	75	(a) Cart roads	2	330	
	(d) Others	130	(b) Bridle-paths	8	624	
	Total, Tinnevelly ..	205	Total ..	10	954	1,159
Total, Southern Circle.	(a) Head-quarter houses ..	5,083	(a) Cart roads	42	2,657	
	(b) Rest-houses	2,599	(b) Bridle-paths	21	1,270	
	(c) Houses for subordinate establishments	570	(c) Others	..	319	
	(d) Others	4,093				
	Total, Southern Circle ..	12,345	Total ..	63	4,246	16,591
Grand Total, Presidency.	(a) Head-quarter houses ..	7,199	(a) Cart roads	127	16,535	
	(b) Rest-houses	8,616	(b) Bridle-paths	42	2,077	
	(c) Houses for subordinate establishments	1,868	(c) Others	..	319	
	(d) Others	4,929				
	Total, Presidency ..	22,612	Total ..	..	18,931	41,543

and Buildings—*cont.*

Repairs executed during the year.

Buildings.		Roads and paths.			Total expended on repairs.
Nature of repairs.	Expenditure incurred.	Nature of repairs.	Length repaired.	Expenditure incurred.	
8	9	10	11	12	13
Circle—cont.					
	RS.		MLS.	RS.	RS.
(*a*) Head-quarter houses ..	1	(*a*) Cart roads	62	1,698	
(*b*) Rest-houses	1,312	(*b*) Bridle-paths	42	981	
(*c*) Houses for subordinate establishments	82	(*c*) Others	..	248	
(*d*) Others	465		104	2,927	4,787
		Add A-VII (*c*) ..	..	..	204
Total ..	1,860	Total ..	..	..	4,991
(*a*) Head-quarter houses	905	(*a*) Cart roads	311	9,725	
(*b*) Rest-houses	3,100	(*b*) Bridle-paths	60	1,083	
(*c*) Houses for subordinate establishments	327	(*c*) Others	..	308	
(*d*) Others	2,092		371	11,116	18,280
	6,424	Add A-VII (*c*) ..	..	..	5,017
Add pay of watchers ..	740	Total ..	..	..	23,297
Total ..	7,164				
(*a*) Head-quarter houses	1,578	(*a*) Cart roads	447	11,941	
(*b*) Rest-houses	9,303	(*b*) Bridle-paths	146	1,714	
(*c*) Houses for subordinate establishments	2,016	(*c*) Others	..	643	
(*d*) Others	3,375				
	16,272		..	14,298	35,617
Add pay of watchers ..	5,047	Add A-VII (*c*) ..	..	..	9,148
Total ..	21,319	Total ..	..	..	44,765

ANNUAL FORM No. 65.

Tramway Statement.

STATEMENT showing the results of transport of wood by tramway.

I.—*Nellore District.*

(i) Śrîharikóta Range.

Capital Account.

—	1898-89.	1899-1900.	—	1898-99.	1899-1900.
Dr.	RS.	RS.	*Cr.*	RS.	RS.
To balance from the previous year.	16,240	15,266	By depreciation at 6 per cent.	974	1,071
Add stock	..	2,588	„ balance of stock	15,266	16,783
Total ..	16,240	17,854	Total ..	16,240	17,854

Revenue Account.

—	1898-99.	1899-1900.	—	1898-99.	1899-1900.
Dr.	RS.	RS.	*Cr.*	RS.	RS.
To working expenses	901	688	By balance written off ..	2,762	2,635
„ road-making and repairs ..	237	162			
„ interest at 4 per cent. ..	650	714			
„ depreciation at 6 per cent. ..	974	1,071			
Total ..	2,762	2,635	Total ..	2,762	2,635

—	1898-99.					1899-1900.				
	Number of tons of wood carried.	Number of miles carried.	Total ton miles.	Actual charge for carrying.	Rate per ton mile.	Number of tons of wood carried.	Number of miles carried	Total ton miles.	Actual charge for carrying.	Rate per ton mile.
				RS.	RS. A. P.				RS.	RS. A. P.
Work done	5,319	4¾	25,265	2,762	0 1 9	4,916½	4	19,666	2,636	0 2 1

(ii) Casuarina Plantation Range.

Capital Account.

—	1898-99.	1899-1900.	—	1898-99.	1899-1900.
Dr.	RS.	RS.	*Cr.*	RS.	RS.
To balance from the previous year ..	11,764	11,058	By depreciation at 6 per cent. ..	706	1,052
Add new stock	..	6,470	„ balance of stock	11,058	16,476
Total ..	11,764	17,528	Total ..	11,764	17,528

Revenue Account.

—	1898-99.	1899-1900.	—	1898-99.	1899-1900.
Dr.	RS.	RS.	*Cr.*	RS.	RS.
To working expenses	426	1,331	By balance written off	1,602	3,885
„ road repairs	..	345			
„ interest at 4 per cent.	470	701			
„ depreciation at 6 per cent. ..	706	1,052			
„ repairs to waggons	..	456			
Total ..	1,602	3,885	Total ..	1,602	3,885

Statement showing the results of transport of wood by tramway, &c.—*cont.*

ii) Casuarina Plantation Range—*cont.*

Revenue Account—cont.

—	1898-98.					1899-1900.				
	Number of tons of wood carried.	Number of miles carried.	Total ton miles.	Actual charge for carrying.	Rate per ton mile.	Number of tons of wood carried.	Number of miles carried.	Total ton miles.	Actual charge for carrying.	Rate per ton mile.
				RS.	RS. A. P.				RS.	RS. A. P.
Work done	919¼	4	3,677	1,602	0 6 11	2,011$\frac{5}{8}$	6½	13,074	3,885	0 4 8

II.—*South Coimbatore District.*

Capital Account.

—	(a)1898-99.	1899-1900.	—	1898-99.	1899-1900.
Dr.	RS.	RS.	*Cr.*	RS.	RS.
To balance from the previous year ..	43,169	40,723	By depreciation at 6 per cent. ..	2,599	2,467
,, repairs to tram trucks	153	93	,, balance of stock	40,723	38,659
,, extension of tram line beyond Sungam	..	310			
Total ..	43,322	41,126	Total ..	43,322	41,126

Revenue Account.

—	(a)1898-99.	1899-1900.	—	1898-99.	1899-1900.
Dr.	RS.	RS.	*Cr.*	RS.	RS.
To working expenses	768	2,373	By balance written off	5,430	6,706
,, depreciation at 6 per cent. ..	2,599	2,467			
,, interest at 4 per cent.	1,733	1,645			
,, repairs to tram road and deviation of tram line	330	221			
Total ..	5,430	6,706	Tota ..	5,430	6,706

—	(a) 1898-99.					1899-1900.				
	Number of tons of timber carried.	Number of miles carried.	Total ton miles.	Actual charge for carrying.	Rate per ton mile.	Number of tons of timber carried.	Number of miles carried.	Total ton miles.	Actual charge for carrying.	Rate per ton mile.
				RS.	RS. A. P.				RS.	RS. A. P.
Work done ..	116$\frac{3}{8}$ tons (372$\frac{2}{5}$ candies or 4,655 c. ft.).	5¼	611	5,430	3 7 8	113$\frac{7}{8}$ tons (4,555 c ft.).	4	456	6,706	1 8 5
	227$\frac{19}{40}$ tons (727$\frac{23}{25}$ candies or 9,099 c. ft.).	3¾	853			136$\frac{4}{5}$ tons (5,472 c. ft.).	3¾	513		
						277$\frac{2}{5}$ tons (11,096 c. ft.).	5½	1,526		
						339$\frac{7}{20}$ tons (13,567 c. ft.).	5¼	1,780		
	30$\frac{17}{20}$ tons (98$\frac{18}{25}$ candies or 1,234 c. ft.).	3	93			36$\frac{13}{40}$ tons (1,453 c. ft.).	3	109		
			1,557					4,384		

(a) The variation in the figures in the opening balance and those in the closing balance of the previous year has not been explained by the Collector.

ANNUAL FORM No. 50.

Forest Department, Madras Presidency.

REGISTER of Breaches of Forest Rules during 1899–1900.

District.		Cases pending from 1898–99.	New cases of the year.					Total cases.	Disposed of during the year.						Cases pending at close of year.
			Injury to forest by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.		Convictions.		Acquittals.		Total.		
									Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	
1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
Northern Circle.															
Ganjám	A	32	..	210	40	16	266	298	172	357	24	102	196 * 57	459 * 138	45
	B	21	..	101	15	14	130	151	141	317	..	..	141	317	10
	C	..	..	22	..	2	24	..	..	..	..	..	..	..	..
	Total ..	53	..	333	55	32	420	449	313	674	24	102	337 * 57	776 * 138	55
Vizagapatam ..	A	(*b*) 22	(*c*) 3	233	126	23	385	407	300	1,029	10	32	310 * 66	1,061 * 142	† 31
	B	(*b*) 15	..	197	86	8	291	306	231	618	..	..	231 * 36	618 * 165	39
	C	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Total ..	37	3	430	212	31	676	713	531	1,647	10	32	541 * 102	1,679 * 307	70
Gódávari ..	A	(*b*) 30	3	129	25	22 (*a*) 11	179 (*a*) 11	209 (*a*) 11	137 (*a*) 2	455 (*a*) 2	17 (*a*) 7	124 (*a*) 7	154 (*a*) 9 * 11	579 (*a*) 9 * 26	44 (*a*) 2
	B	(*b*) 19	..	117	120	22 (*a*) 11	259 (*a*) 11	278 (*a*) 11	169	426	..	..	169 * 96 (*a*) * 11	426 * 387 (*a*) * 11	13
	C	..	3	3	..	3	9	..	..	..	..	..	..	..	..
	Total ..	49	6	249	145	47 (*a*) 22	447 (*a*) 22	487 (*a*) 22	306 (*a*) 2	881 (*a*) 2	17 (*a*) 7	124 (*a*) 7	323 (*a*) 9 * 107 (*a*) * 11	1,005 (*a*) 9 * 413 (*a*) * 11	57 (*a*) 2
Kistna	A	18	1	65	57	8	131	149	100	367	27	230	127	597	22
	B	15	2	516	593	79	1,190	1,205	1,075	3,859	..	..	1,075 * 55	3,859 * 174	75
	C	..	2	26	28	9	65	..	..	..	..	..	..	..	..
	Total ..	33	5	607	678	96	1,386	1,354	1,175	4,226	27	230	1,202 * 55	4,456 * 174	97

A. Cases taken into Court. B. Cases compounded. C. Cases undetected. * Withdrawn under the orders of the District Forest-officer.

† Incorrectly given by the Collector as 24. (*a*) Drift-wood cases.

(*b*) The Collector has not explained the variations between the figures under the heads A and B in the closing balance of the previous year and those in the opening balance of this year as required in Board's Proceedings, Forest No. 221, dated 25th May 1900. The total, however, remains the same.

(*c*) Details of prosecutions for 6 cases are given in Forms II and III of the Government of India printed in the body of the Report, but the Collector has not explained the variation.

Register of Breaches of Forest Rules during 1899–1900—*cont.*

District.		Cases pending from 1898–99.	New cases of the year.					Total cases.	Disposed of during the year.						Cases pending at close of year.
			Injury to forest by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.		Convictions.		Acquittals.		Total.		
									Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	
1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
Northern Circle—cont.															
Kurnool	A	(a) 185	1	174	152	23	350	535	273	1,009	88	371	361 * 64	1,380 * 205	110
	B	(a) 148	..	179	121	16	316	464	362	1,379	..	..	362 * 44	1,379 * 172	58
	C	..	..	41	..	4	45	..	..	..	..	..	..	..	..
	Total ..	333	1	394	273	43	711	999	635	2,388	88	371	723 * 108	2,759 * 377	168
Bellary	A	32	1	40	11	..	52	84	70	233	4	11	74	244	10
	B	41	3	498	266	25	792	833	606	1,472	..	..	606 * 124	1,472 * 225	103
	C	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Total ..	73	4	538	277	25	844	917	676	1,705	4	11	680 * 124	1,716 * 225	113
Anantapur ..	A	15	..	37	96	2	135	150	111	364	20	132	131 * 5	496 * 10	14
	B	36	..	137	139	3	279	315	238	691	..	..	238 * 51	691 * 164	26
	C	..	8	3	16	..	27	..	..	..	..	..	..	..	..
	Total ..	51	8	177	251	5	441	465	349	1,055	20	132	369 * 56	1,187 * 174	40
Total, Northern Circle.	A	334	9	888	507	94 (b) 11	1,498 (b) 11	1,832 (b) 11	1,163 (b) 2	3,814 (b) 2	190 (b) 7	1,062 (b) 7	1,353 (b) 9 * 203	4,816 (b) 9 * 521	276 (a) 2
	B	295	5	1,745	1,340	167 (b) 11	3,257 (b) 11	3,552 (b) 11	2,822	8,762	..	..	2,822 * 406 (b) * 11	8,762 * 1,287 (b) * 11	324
	C	..	13	95	44	18	170	..	..	..	..	..	..	..	..
Grand Total, Northern Circle ..		629	27	2,728	1,891	279 (b) 22	4,925 (b) 22	5,384 (b) 22	3,985 (b) 2	12,576 (b) 2	190 (b) 7	1,002 (b) 7	4,175 (b) 9 * 609 (b) * 11	13,578 (b) 9 * 1,808 (b) * 11	600 (b) 2

A. Cases taken into Court. B. Cases compounded. C. Cases undetected. * Withdrawn under the orders of the District Forest-officer.

(a) The closing balance under items A and B in Column 15 of the previous year's return was 221 and 112 respectively but 36 cases were transferred from A to B.

(b) Driftwood cases.

Register of Breaches of Forest Rules during 1899–1900—*cont.*

District.		Cases pending from 1898-99.	New cases of the year.					Total cases.	Disposed of during the year.						Cases pending at close of year.
			Injury to forest by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.		Convictions.		Acquittals.		Total.		
									Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	
1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
						Central Circle.									
Cuddapah	A	25	2	265	224	25	516	541	376	1,041	22	52	398 (*20)	1,093 (*41)	123
	B	67	2	375	336	48	761	828	585	1,498	..	..	585 (*145)	1,498 (*437)	98
	C	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Total	92	4	640	560	73	1,277	1,369	961	2,539	22	52	983 (*165)	2,591 (*478)	221
Nellore	A	(a) 56	..	93	227	10	330	386	295	626	20	53	315 (*12)	679 (*23)	59
	B	(a) 4	..	68	156	3	227	231	77	195	..	..	77 (*144)	195 (*271)	10
	C	..	..	14	7	..	21	...	..	..	..	..	..	..	..
	Total	60	..	175	390	13	578	617	372	821	20	53	392 (*156)	874 (*294)	69
Chingleput	A	(b) 1	..	176	127	25	328	329	108	125	27	35	135 (*137)	160 (*153)	† 57
	B	(b) 16	..	1,087	322	22	1,431	1,447	1,141	1,225	..	..	1,141 (*2)	1,225 (*2)	304
	C	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Total	17	..	1,263	449	47	1,759	1,776	1,249	1,350	27	35	1,276 (*139)	1,385 (*155)	361
North Arcot	A	(c) 87	1	133	267	12	413	500	363	909	35	120	398 (*31)	1,029 (*86)	71
	B	(c) 229	..	467	1,113	22	1,602	1,831	1,514	2,962	..	..	1,514 (*51)	2,962 (*137)	266
	C	..	25	3	10	..	38	..	..	..	..	..	..	..	..
	Total	316	26	603	1,390	34	2,053	2,331	1,877	3,871	35	120	1,912 (*82)	3,991 (*223)	337

A. Cases taken into Court. B. Cases compounded. C. Cases undetected. * Withdrawn under the orders of the District Forest-officer.

† Incorrectly entered by Collector as 58.

(*a*) The closing balances under items A and B in column 15 of the previous year's return was 52 and 8, respectively, but four cases were since transferred from B to A.

(*b*) The variations in the figures between the closing balance of the previous year and the opening balance of the year under report has not been explained by the Collector. The sum total, however remains the same.

(*c*) The closing balance under items A and B in column 15 of the previous year's return was 17 and 303, respectively. The Collector reports that the correct figure is 316 to be distributed in the proportion of 21 cases to A and 295 to B. Of these four cases were transferred from A to B and 70 *vice versâ*.

Register of Breaches of Forest Rules during 1899-1900—*cont.*

District.		Cases pending from 1898-99.	New cases of the year. Injury to forest by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.	Total cases.	Disposed of during the year. Convictions. Cases.	Convictions. Persons.	Acquittals. Cases.	Acquittals. Persons.	Total. Cases.	Total. Persons.	Cases pending at close of year.
1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
						Central Circle—cont.									
South Arcot ..	A	(*a*) 210	..	505	195	51	751	961	725	2,289	34	91	759 / * 29	2,380 / * 70	173
	B	(*a*) 191	..	851	876	73	1,800	1,891	1,708	4,241	..	..	1,703 / * 13	4,241 / * 47	275
	C	32	39	295	91	32	† 457	..	..	..	..	..	* 127	..	..
	Total ..	(*a*) 433	39	1,651	1,162	156	3,008	2,952	2,428	6,530	34	91	2,462 / * 169	6,621 / * 117	448
						Southern Circle.									
Salem	A	(*b*) 117	6	375	239	36	656	773	486	1,587	145	761	631 / * 18	2,348 / * 51	124
	B	(*b*) 119	..	854	865	43	1,762	1,881	1,665	4,683	..	..	1,665 / * 143	4,683 / * 356	73
	C	..	10	37	28	1	76	..	..	..	..	..	..	..	..
	Total ..	236	16	1,266	1,132	80	2,494	2,654	2,151	6,270	145	761	2,296 / * 161	7,031 / * 407	197
Trichinopoly ..	A	15	..	73	45	10	128	143	94	237	29	41	123	278	20
	B	120	1	487	316	15	819	939	724	1,879	..	..	724 / * 62	1,879	153
	C	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Total ..	135	1	560	361	25	947	1,082	818	2,116	29	41	847 / * 62	2,157	173
Tanjore	A	(*b*) 7	..	31	52	7	90	97	54	125	11	25	65 / * 2	150 / * 2	30
	B	(*b*) 5	..	47	108	7	162	167	131	291	..	..	134 / * 16	291 / * 24	17
	C	..	1	5	11	1	18	..	..	..	..	..	..	..	..
	Total ..	12	1	83	171	15	270	264	188	416	11	25	199 / * 18	441 / * 26	47

A. Cases taken into Court. B. Cases compounded. C. Cases undetected. * Withdrawn under the orders of the District Forest-officer.

† Includes 127 cases in which the offenders were let off with a warning. The Collector has not reported the details for the classification of such offences.

(*a*) The Collector states that the figures are entered with reference to the actual state of the cases pending at the beginning of the year.

(*b*) The variations in the figures entered under heads A and B in the closing balance of the previous year and the opening balance of the year under report have not been explained by the Collector. The sum total however remains the same.

Register of Breaches of Forest Rules during 1899–1900—*cont.*

District.		Cases pending from 1898–99.	New cases of the year. Injury to forest by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.	Total cases.	Disposed of during the year. Convictions. Cases.	Convictions. Persons.	Acquittals. Cases.	Acquittals. Persons.	Total. Cases.	Total. Persons.	Cases pending at close of year.
1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
						Southern Circle—cont.									
Total, Central Circle.	A	518	9	1,651	1,376	176	3,212	3,730	2,501	6,939	323	1,178	2,824 * 249	8,117 * 426	657
	B	751	3	4,236	4,092	233	8,564	9,315	7,543	16,974	..	..	7,543 * 576	16,974 * 1,274	1,196
	C	32	75	354	147	34	610	..	..	..	..	..	* 127	..	..
	Total ..	1,301	87	6,241	5,615	443	12,386	13,045	10,044	23,913	323	1,178	10,367 * 952	25,091 * 1,700	1,853
South Canara† ..	A	(*b*) 67	18	190	34	33	275	342	174	334	44	132	218 * 52	466 * 100	72
	B	(*b*) 38	8	391	10	43	452	490	407	667	..	..	407 * 1	667 * 1	82
	C	..	97	19	36	1	153	..	..	..	..	..	..	..	..
	Total ..	105	123	600	80	77	880	832	581	1,001	44	132	625 * 53	1,133 * 101	154
North Malabar ..	A	2	1	3	6	1	11	13	7	21	1	2	8 * 2	23 * 37	3
	B	..	..	..	..	5	5	5	5	13			5	13	
	C	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Total ..	2	1	3	6	6	16	18	12	34	1	2	13 * 2	36 * 37	3
South Malabar ..	A	(*c*) 4	..	5	..	3	8	12	5	13	2	19	7 * 3	32 * 21	2
	B	(*c*) 1	..	11	..	..	11	12	12	48	..	..	12	48	..
	C	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Total ..	5	..	16	..	3	19	24	17	61	2	19	19 * 3	80 * 21	2
The Nilgiris ..	A	35	4	24	49	21	98	133	79	528	19	97	98 * 24	625 * 37	11
	B	..		17	23	5	45	45	44	92	..	..	44	92	1
	C	..	15	..	..	..	15	..	..	..	..	..	..	..	..
	Total ..	35	19	41	72	26	158	178	123	620	19	97	142 * 24	717 * 37	12

A. Cases taken into Court. B. Cases compounded. C. Cases undetected. * Withdrawn under the orders of the District Forest-officer.

† Excludes 1,754 petty offences against 2,008 persons.

(*b*) 30 cases under A and 75 under B were pending at the close of the year, of which 37 cases were transferred from B to A.

(*c*) The closing balance under A in column 15 of the previous year was five, but one of the cases was transferred to B.

Register of Breaches of Forest Rules during 1899–1900—*cont.*

District.		Cases pending from 1898–99.	New cases of the year.					Total cases.	Disposed of during the year.						Cases pending at close of year.
			Injury to forest by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.		Convictions.		Acquittals.		Total.		
									Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	
1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
Southern Circle—cont.															
North Coimbatore.	A	(a) 37	5	83	97	25	210	247	164	572	22	145	186	717	56
													* 6	* 14	
	B	15	..	95	77	8	180	195	97	326	..	..	97	326	18
													* 80	* 383	
	C	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Total	52	5	178	174	33	390	442	261	898	22	145	283	1,043	73
													* 86	* 397	
South Coimbatore.	A	(b) 37	1	46	24	11	82	119	92	275	18	97	110	372	5
													* 4	* 11	
	B	14	..	148	62	12	222	236	130	304	..	..	130	304	12
													* 94	* 281	
	C	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Total	51	1	194	86	23	304	355	222	579	18	97	240	676	17
													* 98	* 292	
Madura	A	118	2	233	157	17	409	527	400	1,155	35	115	435	1,270	76
													* 16	* 46	
	B	27	..	192	142	5	339	366	289	927	..	..	289	927	68
													* 9	* 99	
	C	2	27	28	16	6	77	..	..	..	..	..	..	..	..
	Total	(c) 147	29	453	315	28	825	893	689	2,082	35	115	724	2,197	141
													* 25	* 145	

A. Cases taken to Court. B. Cases compounded. C. Cases undetected. * Withdrawn under the orders of the District Forest-officer.

(a) The variation in the figures entered under A and B in the closing balance of the previous years and the opening balance of the year under report has not been explained. The sum total however remains the same.

(b) The closing balance under items A and B in column 15 of the previous year's return was 29 and 22 respectively. Of these 8 cases were transferred from head B to A.

(c) The variation in the closing balance of the previous year and the opening balance of the year under report has not been explained. The sum total however remains the same.

Register of Breaches of Forest Rules during 1899–1900—*cont.*

District.		Cases pending from 1898-99.	New cases of the year.					Total cases.	Disposed of during the year.						Cases pending at close of year.
			Injury to forest by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.		Conviction.		Acquittals.		Total.		
									Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	
1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
Southern Circle—cont.															
Tinnevelly	A	7	1	39	7	9	56	63	38	96	9	61	47	157	14
													* 2	* 8	
	B	26	..	256	97	16	369	395	305	831	..	..	305	831	31
													* 59	156	
	C	..	30	66	4	..	100	..	..	..	..	..	..	..	..
	Total	33	31	361	108	25	525	458	343	927	9	61	352	988	45
													* 61	* 164	
Total, Southern Circle.	A	307	32	623	374	120	1,149	1,456	959	2,994	150	668	1,109	3,659	238
													* 109	* 274	
	B	121	8	1,110	411	94	1,623	1,744	1,289	3,208	..	..	1,289	3,208	212
													* 243	* 920	
	C	2	169	113	56	7	345	..	..	..	..	..	..	..	..
	Total	430	209	1,846	841	221	3,117	3,200	2,248	6,202	150	668	2,398	6,867	450
													* 352	* 1,194	
Total, Presidency	A	1,159	50	3,162	2,257	401	5,870	7,029	4,625	13,749	670	2,855	5,295	16,601	1,173
													* 561	* 1,221	
	B	1,167	16	7,091	5,843	505	13,455	14,622	11,654	28,944	..	..	11,654	28,944	1,732
													* 1,236	* 3,492	
	C	34	257	562	247	59	1,125	..	..	..	..	..	* 127	..	..
Grand Total, Presidency		2,360	323	10,815	8,347	965	20,450	21,651	16,279	42,693	670	2,855	16,949	45,545	2,905
													* 1,924	* 4,713	

* Withdrawn.

N.B.—The number of cases of injury to forests by fire given in this Form does not tally in certain districts with those recorded in Forms II and III of the Government of India printed in the body of the Report. The Collectors concerned have not however explained the variations.

ANNUAL FORM No. 51.

Forest Department, Madras Presidency.

AREA of Forest Tracts protected from Fire during 1899-1900.

District.	Forest tracts.	Year in which protection commenced.	During dry season of 1900. Area protected during the previous year.	Area attempted to be protected.	Fires.	Actually protected.	Cost during the season.	Remarks.
1	2	3	4	5	6	7	8	9
	Northern Circle.		ACS.	ACS.	ACS.	ACS.	RS.	
Ganjám—Kukuluba.	Gogodo	1890	15,090	10,327	360	9,967	40	
	Chodiapalli	1891	807	907	..	907	32	
	Chendragiri	1885	18,020	18,320	469	17,851	120	
	Brahmanosai	1889	7,930	7,841	824	7,017	64	
	Total, Kukuluba	..	41,847	37,395	1,653	35,742	256	
Mojjaguda.	Tiliki	1889	3,907	4,000	53	3,947	32	
	Dhinirijholi	1889	5,376	5,486	..	5,486	32	
	Darpangia	1889	5,875	6,000	15	5,985	48	
	Gulleri	1889	23,502	23,860	196	23,664	128	
	Kalhamba	1889	8,785	8,896	42	8,854	62	
	Baiballi	1889	9,930	10,000	31	9,969	48	
	Total, Mojjaguda	..	57,375	58,242	337	57,905	350	
Suradá	Dabuki	1890	1,310	1,450	..	1,450	40	
	Dougam	1889	2,000	2,279	80	2,199	16	
	Pippalaponka	1889	3,380	4,000	500	3,500	56	
	Total, Suradá	..	6,690	7,729	580	7,149	112	
Buguda	Panchabhuthi	1889	3,720	4,320	..	4,320	40	
	Kurcholi	1889	5,120	6,073	252	5,821	40	
	Total, Buguda	..	8,840	10,393	252	10,141	80	
Berhampore.	Ramagoda	1885	6,503	7,955	48	7,907	32	
	Bainamari	1885	3,682	3,750	28	3,722	32	
	South mohiri	1885	3,704	3,418	4	3,414	32	
	Total, Berhampore	..	13,889	15,123	80	15,043	96	
	Total, Ganjám	..	128,641	128,882	2,902	125,980	894	
Vizagapatam.	Peddapalli	1892	9,077	9,077	..	9,077	58	
	Barnakonda reserve	..	15,572	13,517	100	13,417	..	
	Chinnagora	..	1,961	2,383	69	2,314	50	
	Itchapuram	..	225	900	10	890	20	
	Antikonda	..	6,809	6,969	50	6,919	50	
	Palakonda	1897	8,231	8,320	10	8,310	40	
	Kadagandi	..	7,987	11,064	299	10,765	80	
	Do. No. III	..	511					
	Garugupalli	1899	25	27	..	27	..	
	Arlova	1892	2,473	4,167	1	4,166	36	
	Madalammakonda	..	3,575	3,600	76	3,524	24	
	Karakakonda	..	6,125	9,469	66	9,403	48	
	Pedimikonda	..	3,226	3,311	2	3,309	24	
	Kakarlakonda	..	1,924	1,924	..	1,924	..	
	Kodavatipudi	..	1,504	1,544	..	1,544	..	
	Venkatapuram	..	508	508	..	508	..	
	Boddapalem	1899	380	380	..	380	..	
	Sitakhandi	..	4,320	2,368	..	2,368	12	
	Total, Vizagapatam	..	74,433	79,528	683	78,845	442	
Gódávari—(Special)—Bhadrá-chalam.	Dummagudem reserved forest.	1887	6,108	6,110	..	6,110	220	
	Arlagudem reserved forest	1888	6,130	6,136	..	6,136	231	
	Gogubaka reserved forest.	1887	1,665	1,666	..	1,666	60	
	Total, Bhadrachalam	..	13,903	13,912	..	13,912	511	
Marrigudem range.	Repak reserved forest	1887	4,000	7,000	105	6,895	151	
	Ramachandram do.	1887	10,300	10,300	..	10,300	236	
	Tatlanka do.	1887	11,935	12,000	135	11,865	239	
	Total, Marrigudem	..	26,235	29,300	240	29,060	626	

Area of Forest Tracts protected from Fire during 1899-1900—*cont.*

District.	Forest tracts.	Year in which protection commenced.	During dry season of 1900. Area protected during the previous year.	Area attempted to be protected.	Fires.	Actually protected.	Cost during the season.	Remarks.
1	2	3	4	5	6	7	8	9
	Northern Circle—cont.		ACS.	ACS.	ACS.	ACS.	RS.	
Gódávari—*cont.* Special—Bekapalli range.	Mattapalli reserve * ..	1887 ..	7,964	9,500	146	9,354	204	
	Total, Gódávari (Special).	..	48,102	52,712	386	52,326	1,341	
(General)—Rajahmundry range.	Devancheruvu reserved forest.	1887 ..	2,051	2,051	..	2,051	31	
	Kovida reserved forest .	1889 ..	1,280	1,280	..	1,280	32	
	Murari do. ..	1889 ..	700	700	..	700	15	
	Sudikonda do. ..	1887 ..	6,120	6,880	1	6,879	31	
	Tirumalayapalem reserved forest.	1887 ..	5,094	5,150	..	5,150	47	
	Mallavaram reserved forest.	1887 ..	7,344	7,600	..	7,600	31	
	Molleru reserved forest..	1887 ..	6,986	8,250	..	8,250	13	
	Lakkonda do ..	1887 ..	11,482	13,104	..	13,104	31	
	Total, Rajahmundry ..	..	41,057	45,015	1	45,014	231	
Peddápuram range.	Thotapalli reserved forest.	1890 ..	2,130	2,150	1	2,149	32	
Yernagúdem range.	Jilugumalli reserved forest.	1898 ..	3,290	3,300	..	3,300	35	
	Beddadavole reserved forest.	1890 ..	14,952	15,000	315	14,685	245	
	Marlagudem reserved forest.	1890 ..	2,096	2,100	..	2,100	75	
	Barrinkalapadu reserved forest.	1898 ..	1,645	1,650	..	1,650	48	
	Total, Yernagudem ..	..	21,983	22,050	315	21,735	403	
Ellore range.	Barrikonda reserved forest.	1888 ..	3,175	3,500	..	3,500	116	
	Bandamcherla reserved forest.	1888 ..	5,200	5,200	..	5,200	70	
	Erraguntapalli reserved forest.	1888 ..	8,640	8,640	..	8,640	121	
	Total, Ellore ..	..	17,015	17,340	..	17,340	307	
	Total, Gódávari (General).	..	82,185	86,555	317	86,238	973	
	Grand Total, Gódávari (Special and General).	..	130,287	139,267	703	138,564	2,314	
Kistna (Special)—Bezwada range.	Kondapalli reserve compartments 2, 5 and 6.	1884-85 ..	5,540	3,760	..	3,760	133	
* Guntúr range	Tadepalli reserve	1889-90 ..	2,305	2,305	3	2,302	13	
	Kondavid reserve	1888-89 ..	12,857	12,857	..	12,857	26	
	Total, Guntúr ..	..	15,162	15,162	3	15,159	39	
* Sattenapalli range.	Venkatayapalem reserve compartments 2 and 3.	1894-95 ..	15,300	15,588	..	15,588	3	
* Palnad range.	Gangalakunta reserve ..	1890-91 ..	24,461	17,659	360	17,299	63	
	Pasvimula reserve ..	1892-93 ..	10,158	10,158	..	10,158	31	
	Total, Palnad ..	..	34,619	27,817	360	27,457	94	
	Total, Kistna (Special) ..	..	70,621	62,327	363	61,964	269	
Kistna (General)—Bezwada range.	(*a*) Kondapalli reserve compartments 10, 13 and 14.	1884-85 ..	..	2,800	..	2,800	..	
	Kottur extension 1 ..	1894-95 ..	700	..	..	..	..	
	Dasullapalem reserve ..	1896-97 ..	1,260	..	..	..	..	
	Total ..	..	1,960	2,800	..	2,800	..	

* It was treated last year as general but now treated as special.
(*a*) It was treated last year as under special protection.

Area of Forest Tracts protected from Fire during 1899–1900—*cont.*

District.	Forest tracts.	Year in which protection commenced.	During any season of 1900. Area protected during the previous year.	Area attempted to be protected.	Fires.	Actually protected.	Cost during the season.	Remarks.
1	2	3	4	5	6	7	8	9
Kistna (General)—*cont.*	*Northern Circle* cont.		ACS.	ACS.	ACS.	ACS.	RS.	
Guntur range.	Karapudi	1896-97 ..	619	..	..	..	..	
Vinukonda range.	Bollapalli reserve compartments 1 to 6.	1885-86 ..	20,700	18,584	42	18,542	..	
	Total, Kistna (General) ..	..	23,279	21,384	42	21,342	..	
	Grand Total, Kistna (Special and General).	..	93,900	83,711	405	85,306	269	
(*d*) Kurnool.	North and South Bairluti blocks.	1887 ..	15,722	17,760	14,452	3,248	220	
	"A" block	1889 ..	4,800	8,000	300	7,700	530	
	South Chelama	1891 ..	7,350	8,000	319	7,681	746	
	South Chelama addition ..	1894 ..	4,000	4,000	..	4,000	87	
	Gummakonda	1893 ..	5,970	6,000	5,760	240	186	
	Diguvametta	1891 ..	..	800	..	800	92	
	Zangambhavi	1891 ..	140	140	60	80	45	
	Western Veligonda ..	1889 ..	17,776	17,780	..	17,780	110	
	Chelama Improvement felling block.	1895 ..	1,700	2,000	..	2,000	27	
	Fire tracing Railway line and Chelamala-Bairemi Road.	..	..	..	..	..	290	New area added.
	Total, Kurnool ..	..	57,458	64,420	20,891	43,529	2,333	
Bellary—(Special)—Sandur range.	Ramandrug range ..	1883 ..	14,730	14,785	820	13,965	(*a*) 640	
(General)—								
Adóni range.	Kuppigal	1892-93 ..	460	500	..	500	62	
	Tungabhadra	..	50	84	..	84	21	
Bellary range.	Malapanagudy (*b*) ..	1886-87 ..	1,066	1,066	..	1,066	27	
Sandur range	Tornagal	1898-99 ..	50	50	..	50	27	
	North-East range (*b*) ..	1883 ..	16,010	16,010	3,025	12,985	497	
	Donimalai (*b*.	1883 ..	7,305	9,205	7,000	2,205	232	
Kudligi range.	Chirili (Main) (*c*)	1899-1900.	..	4,380	..	4,380	44	
Harpanahalli range.	Hyrada coupes (*c*) ..	1899-1900.	..	2,616	300	2,316	43	
	Total, Bellary (General).	..	24,941	33,911	10,325	23,586	(*a*) 953	
	Total, (Special and General).	..	(*c*) 39,671	48,696	11,145	37,551	1,593	
Anantapur—(Special) ..	Kojjapalli	1889 ..	342	342	.. *	342	4	*A fire occurred in this reserve but the area burnt being less than half of an acre and the loss being only five palmyra trees, it has been omitted in this statement.
	Anantapur	1889 ..	129	129	..	129	8	
	Muchukota	1884 ..	6,900	7,000	..	7,000	197	
	Durgam	1894 ..	3,640	3,640	..	3,640	145	
	Kottakota	1884 ..	9,956	11,016	143	10,873	473	
	Total, Anantapur (Special).	..	21,057	22,127	143	21,984	827	
(General).	Amagondapalayam ..	1884 ..	15,160	15,360	84	15,276	65	
	Gopidevarapalli	1891 ..	1,884	1,884	..	1,884	33	
	Nyalakota	1890 ..	11,356	12,156	50	12,106	102	
	Dokkalakonda	1898 ..	7,220	7,420	..	7,420	37	
	Guttur, West	1887 ..	2,880	3,880	400	3,480	41	
	Kekathi	1898 ..	1,235	2,470	..	2,470	11	
	Total, Anantapur (General).	..	39,735	43,170	534	42,636	289	
	Total, Special and General.	..	60,792	65,297	677	64,620	1,116—16† = 1,100	
	Total, Northern Circle (Special).	..	151,510	151,951	1,712	150,239	3,077	
	Total, Northern Circle (General).	..	430,672	457,850	35,694	422,156	5,868	
	Grand Total, Northern Circle.	..	585,182	609,801	37,406	572,395	8,945	

(*a*) Includes the pay of fire patrols.
(*b*) These were shown in previous years as being under special protection.
(*c*) Added during the year.
(*d*) East and West Ramallakota reserves and three other blocks which were shown in the last year's return are now dropped out as apparently they were not protected during the year.
(*e*) Excludes Ganekal in the Adóni range which was shown under general protection last year.
† Deducted as per Accountant-General's audited figures.

Area of Forest Tracts protected from Fire during 1899–1900—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During dry season of 1900. Area actually attempted to be protected.	Fires.	Actually protected.	Cost during the season.	Remarks.
1	2	3	4	5	6	7	8	9
	Central Circle.		ACS.	ACS.	ACS.	ACS.	RS.	
Cuddapah ..	Kodur reserve ..	1874 ..	6,450	7,440	2,325	5,115	219	
	Settigunta do. ..	1871 ..	8,608	8,960	1,650	7,310	292	
	Tunukonda do. ..	1874 ..	1,048	1,048	..	1,048	64	
	Seshachalam do. ..	1867-73-90	170,207	176,200	22,729	153,471	1,766	
	Vattalur do. ..	1887 ..	2,880	2,880	..	2,880	94	
	Nigadi do. ..	1881 ..	14,000	14,000	..	14,000	117	
	Kondakemerla do. ..	..	3,700	3,700	..	3,700	47	
	Tummalamala do. ..	1890 ..	8,460	8,500	..	8,500	68	
	Kokanti do. ..	1881 ..	2,000	2,000	..	2,000	18	
	Tsadukonda do. ..	..	2,200	2,200	..	2,200	18	
	Madugumala do. ..	..	1,400	1,400	..	1,400	18	
	Horsleykonda do. ..	..	15,500	15,500	..	15,500	117	
	Nurukupalakonda reserve.	.	3,600	3,600	..	3,600	60	
	Yellutla reserve	..	3,500	3,500	..	3,500	13	
	Ankalammakonda reserve.	..	2,000	2,000	..	2,000	60	
	Gorantlapalli reserve ..	..	4,000	4,000	..	4,000	17	
	† Lankamalais do. ..	1883 ..	6,340	7,000	28	6,972	833	
	Mamillapalli do. ..	1883-88 ..	5,000	5,000	..	5,000	123	
	Palkondas do. ..	1890 ..	1,000	1,000	..	1,000	135	
	Guvvalacheruvu do. ..	1883 ..	7,600	7,600	..	7,600	105	
	Rekkalukonda do. ..	1887 ..	1,200	1,200	..	1,200	18	
	Urakonda do. ..	1881 ..	8,960	8,960	..	8,960	17	
	Gadikota do. ..	1883 ..	10,760	12,480	..	12,480	156	
	Sibyala do. ..	1887 ..	3,500	3,500	..	3,500	44	
	Kanamalapalli do. ..	..	4,149	4,435	..	4,435	109	
	Tsundupalli do. ..	..	3,000	3,000	..	3,000	22	
	† Kothakota Dasaripalle reserve.	1883—85—89—91.	50,740	51,200	3,992	47,208	751	
	Kondasunkesula and Diguva Kalwasala reserve.	1881 ..	858	858	..	858	20	
	Dhodiam-Morapandi reserve.	..	1,345	1,345	..	1,345	20	
	Kodur Malamidi-Kampiladinne reserve.	..	1,366	1,366	..	1,366	20	
	Gandillah reserve ..	..	372	372	..	372	20	
	Zamavaram-Muddanur reserve.	..	200	200	..	200	20	
	Kosinipalli-Kalamella reserve.	..	730	730	..	730	20	
	Aratipalle-Peddadudyala reserve.	..	750	750	..	759	20	
	Niduguvvi reserve ..	..	696	696	..	696	20	
	† Yerrakonda & extension.	..	29,294	32,000	1,600	30,400	111	
	Total, General ..	..	387,413	400,620	32,324	368,296	5,572	
Nellore ..	Udayagiri-Veligonda in Udayagiri range.	1883 ..	60,000	60,000	120	59,880	337	
	Rapur-Veligonda in Rapur range.	1883 ..	30,720	30,720	1,000	29,720	252	
	Kanigiri-Veligonda in Kanigiri.	1883 ..	25,000	25,000	..	25,000	80	
	Total, General ..	..	115,720	115,720	1,120	114,600	669 +(a)514	(a) Added as per Accountant-General's audited figures under A (VIII). The Collector has not explained the variation.
* Chingleput	Kambakkam reserved forest.	1883-84 ..	14,951	14,951	..	14,951	245	
	Nagalapuram reserved forest.	1883-84 ..	8,345	8,345	..	8,345	141	
	Total ..	..	23,296	23,296	..	23,296	386 +(b)157	(b) A sum of Rs. 157 was paid during the year 1899-1900 being the pay of Fire patrols due to the previous year 1898-99.
North Arcot. Special protection— Chittoor ..	Irala	1888 ..	15,621	15,622	345	15,277	186	
	Chittapara	1888 ..	4,250	4,250	..	4,250	50	
	Mahimodalam	1888 ..	2,528	2,528	..	2,528	17	
	Cherlopalli	1884 ..	1,296	1,296	..	1,296	18	
	Pachigunta	1888 ..	1,801	1,800	4	1,796	28	
	Paradarami	1880 ..	13,402	13,402	..	13,402	71	
	Virisettipalli	1888 ..	7,287	7,287	..	7,287	39	
	Puthalpet	1891 ..	2,432	2,442	..	2,442	31	
	Parappumalai	1899 ..	2,227	2,227	..	2,227	52	
	Tavanampalli	1899 ..	(c) 1,862	1,862	..	1,862	63	(c) Correct area.
	Total, Chittoor range ..	..	52,706	52,716	349	52,367	555	

* Pulrambakkam which was shown under special protection is altogether omitted from the list. The omission has not been explained.
† This area was shown under special protection last year.

Area of Forest Tracts protected from Fire during 1899-1900—*cont.*

Districts.	Forest tracts.	Year in which protection commenced.	During dry season of 1900. Area actually protected up to 30th June 1900.	Area attempted to be protected.	Fires.	Actually protected.	Cost during the season.	Remarks.
1	2	3	4	5	6	7	8	9
North Arcot —*cont.*	*Central Circle*—cont.		ACS.	ACS.	ACS.	ACS.	RS.	
Special protection—*cont.*	Napier	1880 ..	8,380	8,380	..	8,380	238	
	Mamandur	1874 ..	1,776	1,776	..	1,776	74	
	Do. extension ..	1888 ..	8,000	8,000	1	7,999	196	
	Mungilpattur	1890 ..	22,700	22,700	17	22,683	101	
	Panapakam	1880 ..	6,400	6,400	225	6,175	138	
Chendragiri.	Chamala	1880 ..	9,600	9,600	86	9,514	204	
	Nagapatla	1890 ..	8,266	8,266	66	8,200	108	
	Tirupati hill	1888 ..	16,910	16,000	1,166	14,834	198	
	Do. extension ..	1891 ..	5,585	5,840	30	5,810	20	
	Panapakam extension ..	1892 ..	9,730	9,730	..	9,730	..	
	Pudipatlabylu	1880 ..	2,560	2,560	20	2,540	..	
	Damalcherla	.. ..	2,417	2,417	..	2,417	..	
	Total, Chendragiri ..	..	101,324	101,669	1,611	100,058	1,277	
Palmanér ..	Peddanaigdrug	1880 ..	14,419	14,419	..	14,419	41	
	Mordana	1884 ..	11,655	11,655	..	11,655	65	
	Charagal	1888 ..	18,285	18,285	..	18,285	110	
	Peddur	1880 ..	16,506	16,526	160	16,366	73	
	Naickaneri	1880 ..	6,840	6,840	300	6,540	59	
	Musilimadugu	1884 ..	5,542	5,542	950	4,592	117	
	Palmanér	1892 ..	1,791	6,452	200	6,252	49	
	Total, Palmanér ..	..	75,038	79,719	1,610	78,109	514	
Gudiyáttam.	Panamadangi	1887 ..	10,515	10,515	..	10,515	33	
	Naickaneri	1884 ..	5,179	5,154	200	4,954	32	
	Mordana	1884 ..	12,691	12,159	22	12,137	41	
	Ambur drug	1884 ..	10,139	10,139	60	10,079	85	
	Kampasamudram ..	1893 ..	1,415	1,415	..	1,415	..	
	Naickaneri extension ..	1887 ..	1,543	1,568	..	1,568	20	
	Mordana do. ..	1891 ..	9,044	9,094	..	9,094	25	
	Gundlapalli	1894 ..	7,354	7,354	25	7,329	36	
	Do. extension ..	1894 ..	928	928	25	903	5	
	Sayanagunta	1891 ..	6,400	6,400	..	6,400	55	
	Do. extension ..	1892 ..	4,395	4,395	..	4,395	..	
	Kallapadi	1894 ..	7,283	6,945	..	6,945	..	
	Kanjanur	1893 ..	1,549	1,549	6	1,543	..	
	Paradarami extension ..	1889 ..	1,888	1,888	..	1,888	..	
	Karapet	1892 ..	7,918	8,333	300	8,033	112	
	Total, Gudiyáttam ..	..	88,241	87,836	638	87,198	444	
Vellore ..	Arasampattu	1887 ..	17,890	17,890	695	17,195	122	
	Ambur fuel	1879 ..	5,453	5,453	..	5,453	77	
	Vellakal	1889 ..	5,037	5,037	..	5,037	110	
	Ambur block	1887 ..	27,878	27,878	140	27,738	238	
	Athiyur	1889 ..	4,800	4,800	60	4,740	28	
	Palamadi	1880 ..	8,060	8,160	324	7,836	147	
	Thellai (Vellore portion) ..	1891 ..	1,330	1,330	..	1,330	56	
	Karuthamalai	1882 ..	20,486	20,486	..	20,486	193	
	Kylasagiri	1892 ..	2,514	2,534	30	2,504	115	
	Kaniambadi	1892 ..	5,472	5,472	80	5,392	..	
	Nellimalai	1892 ..	2,797	2,797	..	2,797	..	
	Sanankuppam	1893 ..	13,843	13,843	15	13,828	13	
	Parnamalai	1892 ..	* 7,078	7,078	..	7,078	..	* This was entered wrongly as 2,078 acres in the previous return.
	Vellore	1892 ..	2,408	2,413	115	2,298	..	
	Pallikonda	1892 ..	3,898	3,898	..	3,898	..	
	Appukal	1892 ..	800	800	10	790	20	
	Total, Vellore ..	..	129,744	129,869	1,469	128,400	1,119	
Pólúr ..	Karnatighur	1881 ..	7,270	7,270	..	7,270	242	
	Malayalam	1887 ..	28,610	28,615	150	28,465	167	
	Mulakad	1890 ..	15,724	15,744	220	15,524	155	
	Santavasal	1890 ..	9,670	9,670	60	9,610	60	
	Periyamalai	1892 ..	6,960	6,970	40	6,930	65	
	Paruvadamalai	1892 ..	5,779	5,779	..	5,779	41	
	Thellai (Pólúr portion) ..	1891 ..	14,862	14,862	..	14,862	20	
	Vellimalai	1893 ..	2,003	2,003	30	1,973	28	
	Kelur	1884 ..	2,989	2,989	..	2,989	8	
	Virapanur	1886 ..	31,469	31,469	..	31,469	63	
	Total, Pólúr ..	..	125,336	125,371	500	124,871	849	

Area of Forest Tracts protected from Fire during 1899–1900—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During dry season of 1900.			Cost during the season.	Remarks.
				Area attempted to be protected.	Fires.	Actually protected.		
1	2	3	4	5	6	7	8	9
	Central Circle—cont.		ACS.	ACS.	ACS.	ACS.	RS.	
Arcot-Wallajah.	Banavaram	1880 ..	1,051	1,021	..	1,021	23	
	Punganur	1884 ..	11,362	13,498	590	12,908	111	
	Ammur	1884 ..	4,939	5,139	..	5,139	64	
	Total, Arcot-Wallajah ..	..	17,352	19,658	590	19,068	198	
	Total, Special, North Arcot.	..	589,741	596,838	6,767	590,071	4,956	
General.								
Chittoor ..	Kinatipalle	1884 ..	1,417	1,417	..	1,417	..	
	Santhapet	1882 ..	2,096	2,148	..	2,148	..	
	Basavapalli	1888 ..	1,784	1,784	..	1,784	..	
	Bommasamudram ..	1891 ..	1,242	1,172	..	1,172	..	
	Vadilatata	1891 ..	2,495	2,495	..	2,495	..	
	Tavanampalli	1891 ..	..	..	..	..	..	Transferred to special protection.
	Chittoor	1882 ..	300	385	..	385	..	
	Bommasamudram extension.	1892 ..	1,312	1,312	..	1,312	..	
	Kinatipalli extension ..	1893 ..	1,500	995	..	995	..	
	Basavapalle do. ..	1894 ..	830	830	..	830	..	
	Reddigunta	1893 ..	2,479	2,479	..	2,479	..	
	Chase's hill	1893 ..	1,773	1,773	..	1,773	..	
	Irala extension	1893 ..	* 2,650	2,650	..	2,650	..	
	Penumur	1891 ..	1,082	1,082	..	1,082	..	
	Parappumalai	1893 ..	..	..	..	..	..	Do.
	Penamur extension ..	1893 ..	3,392	3,392	..	3,392	..	
	Santhapet do. ..	1893 ..	477	482	..	482	..	
	Total, Chittoor ..	..	24,829	24,396	..	24,396	..	
Chendragiri.	Chendragiri hill	1892 ..	983	983	15	968	..	
	Damalcherla	1892 ..	..	..	..	..	..	Do.
	Sanambatla	1892 ..	4,994	5,000	80	4,920	22	
	Pakala A and B	1894 ..	2,170	2,170	..	2,170	..	
	Total, Chendragiri ..	..	8,147	8,153	95	8,058	22	
Palmanér ..	Basavareddipalli	1884 ..	5,952	5,952	..	5,952	..	
	Palmanér tope	1884 ..	2	2	..	2	..	
	Nagamangalam tope ..	1884 ..	20	20	..	20	..	
	Muduguvaripalli	1884 ..	4	4	..	4	..	
	Venkatagiri Kota tope ..	1884 ..	9	9	..	9	..	
	Baireddipalli tope ..	1884 ..	4	4	..	4	..	
	Melmoyi	1884 ..	1,568	1,568	..	1,568	..	
	Jangalapalle	1884 ..	3,034	3,034	5	3,029	..	
	Pattikonda	1893 ..	5,190	5,190	..	5,190	..	
	Peddur extension	1895 ..	9,550	9,550	..	9,550	..	
	Musalimadugu extension.	1895 ..	1,849	1,829	..	1,829	..	
	Basavareddipalli A ..	1895 ..	1,760	1,718	..	1,718	..	
	Do. B ..	1895 ..	5,758	5,758	..	5,758	..	
	Alapalli	1895 ..	2,029	2,029	..	2,029	..	
	Nellipatla	1895 ..	7,705	7,705	..	7,705	..	
	Veerlabunda	1895 ..	2,611	2,611	..	2,611	..	
	Thotakanama	1895 ..	5,498	5,498	..	5,498	..	
	Total, Palmanér ..	..	52,543	52,481	5	52,476	..	
Gudiyáttam.	Tiruvallam plantation ..	1884 ..	431	431	..	431	..	
	Virinjipuram do. ..	1884 ..	260	260	..	260	..	
	Cheynur	1884 ..	130	130	..	130	..	
	Ammundi	1884 ..	160	160	..	160	..	
	Tandavaroyagunta ..	1884 ..	3	3	..	3	..	
	Vikramasi	1884 ..	129	129	..	129	..	
	Pallalakuppam	1892 ..	6,822	6,822	..	6,822	..	
	Do. extension A.	1893 ..	6,822	7,162	..	7,162	..	
	Bommanayakan Palaiyam.	1894 ..	907	912	8	904	..	
	Total, Gudiyáttam ..	..	15,664	16,009	8	16,001	..	

* Revised figure reported by the Collector.

Area of Forest Tracts protected from Fire during 1899-1900—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During dry season of 1900. Area attempted to be protected.	Fires.	Actually protected.	Cost during the season.	Remarks.
1	2	3	4	5	6	7	8	9
North Arcot—*cont.*	*Central Circle*—cont.		ACS.	ACS.	ACS.	ACS.	RS.	
General Protection—*cont.* Pólúr ..	Amerdi plantation ..	1884 ..	25	25	..	25	..	
	Patrakad	1881 ..	25,254	25,254	..	25,254	..	
	Puttur	1879 ..	18,458	18,458	..	18,458	..	
	Thapalur	1884 ..	1,504	1,504	..	1,504	..	
	Alialamangalam ..	1884 ..	10,027	10,027	..	10,027	..	
	Santavasal extension ..	1892 ..	260	331	..	331	..	
	Total, Pólúr ..	..	55,528	55,599	..	55,599	..	
Vellore ..	Ambur tope	1884 ..	5	6	..	6	..	
	Vellore	1892 ..	..	..	..	..	..	Transferred to Special protection.
	Total, Vellore ..	..	5	6	..	6	..	
Wandiwash.	Brahmanamateri	1884 ..	635	635	..	635	..	
	Kodiyalam	1884 ..	125	125	..	125	..	
	Badur	1884 ..	783	834	..	834	..	
	Vengunam	1884 ..	1,288	1,288	..	1,288	..	
	Nambedu	1884 ..	707	707	..	707	..	
	Vishamangalam	1884 ..	1,148	1,148	..	1,148	..	
	Ponnur	1884 ..	769	1,656	..	1,656	..	
	Nedungal	1884 ..	3,280	2,298	..	2,298	..	
	Nedungunam	1884 ..	1,697	1,697	..	1,697	..	
	Nambedu extensions A, B and C	1895 ..	327	327	..	327	..	
	Total, Wandiwash ..	..	10,759	10,715	..	10,715	..	
Arcot ..	Kilminnal plantation ..	1884 ..	150	150	..	150	..	
	Saunleri	1884 ..	1,675	1,675	..	1,675	..	
	Sathur	1884 ..	750	750	..	750	..	
	Tandappanthangal ..	1884 ..	1,099	1,099	..	1,099	..	
	Enadanadi	1884 ..	1,565	1,565	..	1,565	..	
	Solavaram	1884 ..	1,143	1,143	..	1,143	..	
	Do. extension ..	1895 ..	874	874	..	874	..	
	Tandappanthangal extension	1895 ..	310	310	..	310	..	
	Total, Arcot ..	..	7,566	7,566	..	7,566	..	
Wallajah ..	Vannivedu plantation ..	1884 ..	30	39	..	39	..	
	Arkonam tope	1884 ..	37	37	..	37	..	
	Gudulur	1884 ..	535	535	..	535	..	
	Ananthapuram	1880 ..	540	540	..	540	..	
	Ammur	1880 ..	203	203	..	203	..	
	Kolattur	1884 ..	1,729	1,729	..	1,729	..	
	Arkonam Head Assistant Collector's compound ..	1884 ..	4	4	..	4	..	
	Total, Wallajah ..	..	3,078	3,087	..	3,087	..	
	Total, General Protection.	..	178,120	178,012	108	177,904	22	
	Total, Special and General, North Arcot	..	767,861	774,850	6,875	767,975	† 4,978	
South Arcot—Special—Tiruvannámalai.	Annamalai reserved forest.	1878 ..	2,640	2,640	..	2,640	147	
	Kavuthi reserved forest ..	1878 ..	7,085	7,085	* 250	6,835	100	
	Total, Tiruvannámalai ..	..	9,725	9,725	..	9,475	247	
Kallakurichi ..	Takarai reserved forest ..	1883-84 ..	14,320	14,338	8	14,330	142	
	Total, Special, South Arcot.	..	24,045	24,063	* 258	23,805	389	
General—Tiruvannámalai.	Tenmalai reserved forest.	1877 ..	31,601	31,706	* 554 2,738	28,414	258	
	Nallapet reserved forest.	1889 ..	5,094	5,094	..	5,094		
	Pelamarudur	1889 ..	5,075	5,075	..	5,075		
	Paramanandal	1895 ..	1,517	1,517	406	1,111		
	Mudanai	1898 ..	7,046	7,046	29	7,017		
	Valasamalai	1883-84 ..	12,369	12,369	1,035	11,334	102	
	Nattampalli	1889 ..	7,270	7,270	22	7,248	90	

† Amount spent on fire patrols.. Rs. 2,850
Amount spent on fire-line clearing, 628 miles 2,118
Total .. 4,978

* Indicates fires that occurred during the dry season of 1899.

Area of Forest Tracts protected from Fire during 1899–1900—*cont.*

Range.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During dry season of 1900.			Cost during the season.	Remarks.
				Area attempted to be protected.	Fires.	Actually protected.		
1	2	3	4	5	6	7	8	9
	Central Circle—cont.		ACS.	ACS.	ACS.	ACS.	RS.	
Tiruvannamalai—*cont.*	Perunkolattur-Swamimalai.	1883-84 ..	9,302	9,312	* 64	9,248	89	
	Chinnasamudram ..	1900 ..	..	2,842	* 16	2,826	10	
	Damarakadu	1900 ..	..	5,950	* 560	5,390	16	
	Total, General, South Arcot	..	79,274	88,181	5,424	82,757	565	
	Total, Special and General, South Arcot.	..	103,319	112,244	5,682	106,562	954	
General. Salem, West.	Vadugampatti block No. 1.	1881 ..	1,976	1,976	..	1,976	87	
	Morur block No. 2 ..	1881 ..	799	799	..	799	41	
	Ammaneri block No 8 ..	1882 ..	252	252	..	252	28	
	Pelapallikombai block No. 7.	1882 ..	981	981	..	981	8	
	Kanjeri	1882 ..	1,929	1,929	..	1,929	..	
	Pannikaradu	1882 ..	2,645	2,645	..	2,645	..	
	Karunattuparai	1883 ..	* 837	837	..	837	2	
	Total, Salem, West ..	..	9,419	9,419	..	9,419	166	
Uttankarai..	Harur	1882 ..	1,176	1,176	..	1,176	51	
	Mallapuram	1882 ..	1,952	1,952	..	1,952	50	
	Kuriappukombai	1897 ..	450	450	..	450	..	
	Kouramalai coupes ..	1898 ..	609	609	..	609	..	
	Total, Uttankarai ..	..	4,187	4,187	..	4,187	101	
Tiruppattúr.	Alangayam	1891 ..	2,082	2,082	..	2,082	38	
	Narasingapuram	1893 ..	2,000	1,595	..	1,595	47	
	Kalarapatti	1895 ..	1,840	1,840	..	1,840	35	
	Vellakuttai	1896 ..	620	620	..	620	7	
	Punkulam coupes.. ..	1895-96 ..	1,000	700	..	700	26	
	Andiappanur	1894 ..	1,100	1,500	..	1,500	36	
	Mambakkam	1894 ..	900	600	..	600	24	
	Govindapuram	1895 ..	1,100	1,755	..	1,755	54	
	Madakadappa	1896 ..	313	313	..	313	..	
	Singarapet coupe and S.P. block.	1881 ..	2,000	2,991	80	2,911	96	
	Kottur block (Elagiri) ..	1885 ..	1,200	1,200	..	1,200	37	
	Onnakarai	1897 ..	300	1,500	..	1,500	13	
	Kallavi	..	..	450	..	450	..	
	Burgur block	1892 ..	2,000	2,000	..	2,000	32	
	Kottur block	1883 ..	2,350	2,350	..	2,350	70	
	Neralkottai	1893 ..	1,227	1,227	..	1,227	34	
	Maharajagadai	1896 ..	1,000	1,275	..	1,275	35	
	Thogarapalli	1884 ..	750	750	..	750	29	
	Total, Tiruppattúr ..	..	21,782	24,748	80	24,668	613	
Hosur ..	Melagiri block	1885 ..	5,411	5,411	10	5,401	36	
	Kanavoikottapalli block XVII.	1885 ..	742	742	400	342	8	
	Gollahatti S. P. block ..	1885 ..	3,248	3,248	..	3,248	18	
	Manchi block	1885 ..	3,155	3,155	..	3,155	..	
	Kanana. Nagasundram-Tholuvabetta reserved forest.	1885 ..	216	216	200	16	9	
	Javalagiri S. P. block ..	1899 ..	..	..	..	..	16	
	Noganur (coupes Nos. 1 to 6).	1899 ..	..	..	..	..	8	
	Total, Hosur ..	..	12,772	12,772	610	12,162	95	
Salem, East.	Kurumbapatti coupe ..	1897 ..	* 1,872	4,000	30	3,970	170	* Revised figures.
	Kapputtu coupe	1897 ..	* 610	1,000	15	985		
	Total, Salem, East ..	..	2,482	5,000	45	4,955	170	
	Total Salem, general ..	..	50,642	56,126	735	55,391	1,145 + 123	

* Indicates fires that occurred during the dry season of 1899.
† Added as per Accountant-General's audited figures under A (VIII).

Area of Forest Tracts protected from Fire during 1899-1900—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area actually protected during the previous year.	During dry season of 1900. Area attempted to be protected.	Fires.	Actually protected.	Cost during the season.	Remarks.
1	2	3	4	5	6	7	8	9
	Central Circle—cont.		ACS.	ACS.	ACS.	ACS.	RS. A. P.	
Trichinopoly—	Sengattupatti	1885-86 ..	2,980	3,000	75	2,925		These blocks were in former years protected by fire lines and patrols. Since 1893-94 no money has been spent on fire lines as the Conservator and District Forest-officer considered them unnecessary.
	Manmalai	1887-88 ..	5,980	6,000	100	5,900		
	T. Kanapadi	1887-88 ..	12,000	12,000	200	11,800		
	Karuppan Kadu Thittu ..	1887-88 ..	2,000	2,000	..	2,000		
Musiri Range.	Melur	1885-86 ..	3,000	3,000	..	3,000		
	V. Kanappadi	1887-88 ..	10,000	10,000	90	9,910		
	Palamalai	1888-89 ..	10,000	10,000	..	10,000		
	Kaliammankoil Thittu ..	1889-90 ..	1,495	1,500	..	1,500		
	Kanappadi Kannimarsolai.	1889-90 ..	2,560	2,560	..	2,560	139 0 0	
	Total, Musiri ..	..	50,015	50,060	465	49,595		
Perambalúr Range.	Manalodai	1885-86 ..	5,000	5,000	..	5,000		
	Sholamathi	1885-86 ..	6,000	6,000	..	6,000		
	Selaiyur	1889-90 ..	1,600	1,600		1,600		
	Puliyur	1890-91 ..	10,000	10,000	..	10,000		
	Sengathur	1890-91 ..	10,000	10,000	..	10,000		
	Total, Perambalúr ..	..	32,600	32,600	..	32,600	..	
	Total, Trichinopoly ..	..	82,615	82,660	465	82,195	139 0 0	
Tanjore ..	Tanjore			*Nil.*				
	Total, Special, Central Circle.	..	613,786	620,901	7,025	613,876	5,345 0 0	
	Total, General, Central Circle.	..	917,080	944,615	40,176	904,439	9,292 0 0	
	Grand Total, Central Circle.	..	1,530,866	1,565,516	47,201	1,518,315	14,637 0 0	
	Southern Circle.							
South Canara General—†	Sarapanamane	1886-87 ..	1,238	1,238	..	1,238	41 0 0	
	Savantagudde	1896-97 ..						
	Honnukodlu	1894-95 ..	507	507	..	507	29 0 0	
	Herkur..	1893-94 ..	780	780	..	780	18 0 0	
	Kadike	1895-96 ..	2,767	2,767	105	2,662	31 0 0	
	Chittur	1895-96 ..	2,237	2,237	19	2,218	33 0 0	
	Karnigudde	1895-96 ..	1,190	1,190	..	1,190	32 0 0	
	Darlegudde	1893-94 ..	141	141	..	141	7 0 0	
Coondapoor Range.	Herur	1893-94 ..	2,472	2,472	45	2,427	38 0 0	
	Talabur Ane	1895-96 ..	560	560	15	545	31 0 0	
	Kasanakatte	1893-94 ..	180	180	2	178	15 0 0	
	Mudaregudde	1893-94 ..	407	407	..	407	14 0 0	
	Abbigudde	1897-98 ..	1,434	1,434	..	1,434	36 0 0	
	Baindur	1897-98 ..	5,964	5,964	105	5,859	12 0 0	
	Sabladi	1884-85 ..	208	208	..	208	6 0 0	
	Total, Coondapoor ..	..	20,085	20,085	291	19,794	343 0 0	
Udipi Range.	Chinkramale	1885-86 ..	2,579	2,579	1,600	979	45 0 0	
	Pilarkan	1883-84 ..	320	..	..	..	..	
	Manaje	1886-87 ..	423	423	..	423	11 0 0	
	Jarvattu	1894-95 ..	417	417	60	357	6 0 0	
	Mensinkan	1896-97 ..	635	635	..	635	6 0 0	
	Jatkatmale	1897-98 ..	1,500	1,500	400	1,100	30 0 0	
	Matkulgudde	1897-98 ..	259	259	..	259	4 0 0	
	Tenkahola	1886-87 ..	1,979	1,979	200	1,779	29 0 0	
	Mavinakodlu	1895-96 ..	1,900	1,900	300	1,600	35 0 0	
	Hale Someshwar	1895-96 ..	1,294	1,294	..	1,294	10 0 0	
	Huvakladi	1895-96 ..	639	639	1,000	3,640	30 0 0	
	Portion of Someshwar ..	1899-1900.	..	4,001				
	Durgamale	1897-98 ..	1,570	1,570	500	1,070	34 0 0	
	Total, Udipi ..	..	13,515	17,196	4,060	13,136	240 0 0	
Mangalore Range.	Hospet	1889-90 ..	342	342	75	267	24	
	Todar	1889-90 ..	366	366	..	366	23	
	Mujimale	1894-95 ..	2,495	2,495	..	2,495	38	
	Chembugudde	1884-85 ..	75	75	..	75	..	
	Kuthiar	1884-85 ..	25	25	..	25	..	
	Poitaje and Kayerpalla ..	1885-86 ..	90	90	..	90	..	
	Naninje	1897-98 ..	1,459	1,459	230	1,229	10	
	Total, Mangalore ..	..	4,852	4,852	305	4,547	95	

* This sum represents the amount paid to Malayalees on the Pachamalais with whom agreements were entered into for keeping the lines clear and preserving the forests safe from fire.

† In his report, the Collector states that 69 miles were under *special* and 38 miles under *general* protection. As no details are furnished as to what areas were specially and what were generally protected the whole area is treated as having been under general protection.

Area of Forest Tracts protected from Fire during 1899-1900—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During dry season of 1899-1900. Area attempted to be protected.	Fires.	Actually protected.	Cost during the season.	Remarks.
1	2	3	4	5	6	7	8	9
South Canara—*cont.*	*Southern Circle*—cont.		ACS.	ACS.	ACS.	ACS.	RS.	
Uppinangadi Range.	Darmasthala	1887-88 ..	4,545	4,545	1,920	2,625	93	
Puttur Range.	Parappa	1895-96 ..	2,410	2,410	100	2,310	62	
	Veerakamba	1897-98 ..	1,683	1,683	400	1,283	15	
	Kalanjimale	1898-99 ..	7,680	7,680	450	7,230	28	
	Pumale	1897-98 ..	..	7,680	400	7,280	93	
	Kankamajal	1899-1900.	..	2,252	..	2,252	16	
	Total, Puttur ..	..	11,773	21,705	1,350	20,355	214	
	Total, General, South Canara.	..	54,770	68,383	7,926	60,457	985	
North Malabar. Special—								
Begur Range.	Begur	1882-83 ..	2,200	4,100	2	4,098	..	
Chedleth ..	Kurchiyat	1887-88 ..	..	6,025	30	5,995	..	
Kanoth ..	Kanoth teak, bamboo, &c., plantations	1894-95 ..	264	264	..	264	..	
	Total, Special ..	..	2,464	10,389	32	10,357	* 1,251	* As per Accountant-General's figures. The Collector has not reported the cost nor has he explained the omission. The whole amount has been debited to special protection.
General—								
Begur ..	Tirunelli	1894-95 ..	5,000	5,474	5,474	..	..	
	Begur	1882-83 ..	..	12,000	12,000	..	..	
	Total, Begur ..	..	5,000	17,474	17,474	..	..	
Chedaleth.	Kurchiyat	1887-88 ..	..	12,000	12,000	..	..	
	Mavanhulla	1894-95 ..	..	12,500	12,000	500	..	
	Rampur	1894-95 ..	..	19,000	12,500	6,500	..	
	Total, Chedaleth ..	..	..	43,500	36,500	7,000	..	
Kanoth ..	Kanoth teak, &c., plantations.	1894-95 ..	6,400	6,400	..	6,400	..	
	Total, General ..	..	11,400	67,374	53,974	13,400	..	
	Total, Special and General, North Malabar.	..	13,864	77,763	54,006	23,757	..	
South Malabar. Special—								
Nilambur Range.	Amarampalem reserve ..	1860-61 ..	468	468	..	468	84	
	Chathamporai reserve ..	1872-73 ..	700	700	..	700	141	
	Teak plantations	1842-43 ..	3,517	3,517	..	3,517	702	
	Edakode natural forests ..	1898-99 ..	50	50	..	50	127	
	Arimbra cuttu mala natural forest.	..	..	300	40	260	† ..	† The cost incurred during the season is included in figure Rs. 702 shown against Teak plantations.
	Total, Nilambur ..	..	4,735	5,035	40	4,995	1,054	
Amarampalam Range.	Karimpaya reserve ..	1884-85 ..	4,035	4,115	50	‡ 4,065	197	‡ Includes 240 acres of teak plantations.
	Nellikutta do. ..	1883-84 ..	1,824	1,824	..	1,824	124	
	New Amarampalam reserve	1889-90 ..	75,000	75,000	..	75,000	198	
	Total, Amarampalam ..	..	80,859	80,939	50	80,889	519	
Palghat Range.	Walayar reserve ..	1873-74 ..	3,017	3,017	..	3,017	469	
	Chenat Nair do. ..	1884-85 ..	15,197	15,203	15	15,188	452	
	Tamparatti pottai reserve.	1891-92 ..	..	..	..	..	..	
	Dhoni reserve	1898-99 ..	45	45	..	45	15	
	Total, Palghat ..	..	18,259	18,265	15	18,250	936	
	Total, Special, South Malabar.	..	103,853	104,239	105	104,134	2,509	

Area of Forest Tracts protected from Fire during 1899-1900—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During dry season of 1899-1900. Area attempted to be protected.	Fires.	Actually protected.	Cost during the season.	Remarks.
1	2	3	4	5	6	7	8	9
	Southern Circle—cont.		ACS	ACS.	ACS.	ACS.	RS.	
The Nilgiris.	Mudumalai teak plantation.	1883 ..	25	25	..	25	700	
	Benne teak plantation ..	1886 ..	..	40	..	40		
	Benne experimental block.	1893 ..	179	179	..	179		
	Tuckles of 1896 and 1899.	1899 ..		10	..	10		
	Marigudi block	1888 ..	2,781	2,781	775	2,006		
	Marigudi block Nos. IV and V.	1898 ..	2,686	2,686	370	2,316		
	Moyar reserved forest east.	1886 ..	3,550	4,060	1,060	2,940	385	
	Northernhay Sandalwood plantation.	1883 ..	180	22	..	22		
	Sandalwood tracts in Sigur reserved forest.	1899 ..		1,240	..	1,240		
Special ..	Chemmanguli	1883 ..	25	25	..	25	342	
	Arvakal	1883 ..	9	9	..	9		
	Governor's shola No. I ..	1883 ..	25	25	..	25		
	Do. No. II ..	1883 ..	30	30	..	30		
	Andi	1883 ..	17	17	..	17		
	Upatti	1883 ..	12	12	..	12		
	Sheffield	1883 ..	25	25	..	25		
	Culli	1883 ..	17	17	..	17		
	Chowghat Culli	1883 ..	26	26	..	26		
	Madana	1883 ..	8	8	..	8		
	Baikie	..	50	50	..	50		
	Arambi	..	429	430	2	428		
	Marlimund..	..	11	11	..	11		
	Cairn hill	..	405	405	..	405		
	Muthanad	1898 ..	80	80	..	80		
	Kallar reserve	1883 ..	911	919	37	882	725	
	Burliyar	1883 ..	178	178	..	178		
	Ghaut reserve	1883 ..	242	247	..	247		
	Coonoor peak	1883 ..	259	259	..	259		
	Bandishola	1883 ..	111	111	..	111		
	Sim's park block No. I ..	1883 ..	48	48	..	48		
	Blackbridge	1883 ..	40	40	5	35		
	Little Rallia	1883 ..	10	10	..	10		
	Newman	1883 ..	34	35	..	35		
	Rallia	1883 ..	95	60	..	60		
	Long wood and addition..	1885 ..	350	350	2	348		
	Kunjapanai sandalwood area.	1898 ..	640	640	..	640		
	Bleak house	1899 ..	..	57	..	57		
	Spring field	1899 ..	..	30	1	29		
	Sim's park No. II. ..	1899 ..	..	36	..	36		
	Total, Special ..	..	13,488	15,173	2,252	12,921	2,152	
General fire protection.	Kadkupa	1886 ..	1,622	1,622	..	1,622	317	
	Ulnad	..	839	839	..	839		
	Mukurti	1888 ..	1,324	1,324	..	1,324		
	Kururmund	1883 ..	1,552	1,552	..	1,552		
	Kundah	1885 ..	42,505	42,505	..	42,505		
	Pichelbettu	1886 ..	1,668	1,668	..	1,668		
	Nanjanad	1893 ..	914	914	..	914		
	Karpakan	1886 ..	391	391	..	391		
	Vellingiri	1886 ..	643	643	..	643		
	Pykara	1883 ..	844	844	..	844		
	Yemmaikal	1883 ..	465	465	..	465		
	Hiriashige	1887 ..	3,026	3,026	..	3,026		
	Thiasholai	1885 ..	1,551	1,551	..	1,551		
	Muthanad	1883 ..	340	340	..	340		
	Bikkapathi	1894 ..	1,945	1,945	..	1,945		
	Naduvattam	1885 ..	3,411	3,411	..	3,411		
	Ouchterlony	1886 ..	973	973	..	973		
	Nilgiri Peak	..	5,962	5,962	..	5,962		
	Chinnacoonoor	1894 ..	14	14	..	14		
	Kengal	..	14	14	..	14		
	Kadanad	1895 ..	40	40	..	40		
	Huppatti	..	491	491	..	491		
	Kaguchi	..	475	475	..	475		

* Devashola plantation, an area of 4 acres is omitted from the list and its omission has not been explained by the Collector.

Area of Forest Tracts protected from Fire during 1899-1900—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During dry season of 1899-1900. Area attempted to be protected.	Fires.	Actually protected.	Cost during the season.	Remarks.
1	2	3	4	5	6	7	8	9
The Nilgiris—*cont.*	*Southern Circle*—cont.		ACS.	ACS.	ACS.	ACS.	RS.	
General fire protection.	Iduhatti	..	15	15	.	15	317	
	Butheri shola	1884 ..	34	34	..	34		
	Dodabetta	..	758	758	..	758		
	Jakuntha	..	373	373	..	373		
	Honnathalai	..	320	320	..	320		
	Keraiyada	..	276	276	..	276		
	Kengodu	..	451	451	..	451		
	Brookland	..	177	177	..	177		
	Lovedale east	..	127	127	..	127		
	Benhope reserve	1885 ..	75	75	..	75		
	Black bridge	1883 ..	350	350	..	350		
	Devashola north and south.	1883 ..	211	211	..	211		
	Total, General ..	..	74,176	74,176	..	74,176	317	
	Total, Nilgiris Special and General.	..	87,664	89,349	2,252	87,097	2,469 + * 4	
Coimbatore (North). Special—	Hassanur sandalwood compartment—Satyamangalam Range.	1895-96 ..	2,097	2,097	1	2,096	100	
	Bylur sandalwood compartment — Kollegal Range.	1895-96 ..	2,471	2,471	745	1,726	157	
	Odiarpalayam sandalwood compartment—Kollegal Range.	1895-96 ..	1,500	1,500	..	1,500	100	
	Jadathadihulla sandalwood compartment — Kollegal Range.	1895-96 ..	176	176	..	176	58	
	Badagalli sandalwood compartment — Talamalai Range.	1896-97 ..	685	685	19	666	88	
	Talamalai sandalwood compartment — Talamalai Range.	1897-98 ..	589	589	7	582	101	
	Total ..	..	7,518	7,518	772	6,746	604	
Coimbatore (South)— Special protection.								
Tunacadavu.	Tekadi leased forests and portion of Tunacadavu reserve No. I.	1882-83 ..	25,974	26,374	10,280	16,094	890	
Pollachi .. Udamalpet.. Mettupalayam.	Punachi reserve No. II ..	1888-89 ..	2,880	2,880	35	2,845	354	
	Dhali block ..	1883-84 ..	485	485	..	485	66	
	Singaratope W. C. of Odanthorai block.	1891-92 ..	777	777	..	777	132	
Bolampatti (Block I).	Sholakarai	1883-84..	1,157	1,157	..	1,157	694	
	Thenkaradu		393	393	..	393		
	Keerapatti		2,260	2,260	..	2,260		
	Oratti		1,136	1,136	..	1,136		
	Kuchimalai		1,545	1,545	13	1,532		
Bolampatti (Block II).	Noyel	1883-84..	10,920	10,920	..	10,920		
	Velliyangiri		5,240	5,240	67	5,173		
	Varadimudi		7,960	7,960	..	7,960		
	Kanavarai		13,880	13,880	..	13,880		
	Total, Special ..	..	74,607	75,007	10,395	64,612	2,136	
General protection— Tunacadavu and Pollachi.	Tunacadavu reserve No. I	..	†256,537	256,544	..	254,513	..	
Pollachi .. Udamalpet..	Punachi reserve No. II.	..			1			
	Amravati ,, ,, III.	..			..			
Tunacadavu, Pollachi and Udamalpet.	Anamalai ,, ,, IV.	..			2,030			

* Added as per Accountant-General's audited figures under A (viii).

† The variation from the last year's closing balance has not been explained by the Collector.

Area of Forest Tracts protected from Fire during 1899-1900—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During dry season of 1899-1900.			Cost during the season.	Remarks.
				Area attempted to be protected.	Fires.	Actually protected.		
1	2	3	4	5	6	7	8	9
Coimbatore (South)—*cont.*	*Southern Circle*—cont.		ACS.	ACS	ACS.	ACS.	RS.	
General—*cont.*								
Bollampatti.	Bolampatti reserve No. I.	..			..			
	Do. ,, ,, II.	..			..			
	Do. ,, ,, III.	..			16			
Bolampatti and Méttupálayam.	Tadayam ,, ,, IV.	..			37			
			74,694	74,694		74,541	..	
Méttupálaiyam.	Gopanari ,, ,, V.	..			100			
	Kempampalayam reserve No. VI.	..			..			
	Nellithorai reserve No. VII.	..			..			
Bolampatti..	Small Sholakarai reserve No. X.	..			..			
	Sankararayapuram ..	..	..	97	..	97	..	
Méttupálaiyam.	Odanthorai reserve No VIII.	..	5,335	5,335	..	5,335	..	
	Modur reserve No. IX ..	..	5,805	5,805	..	5,805	..	
	Nellimalai	..	..	1,882	..	1,882	..	
Udamalpet..	Elayamuthur reserve ..	..	762	762	..	762	..	
	Dhali reserve	..	145	145	..	145	..	
	Total, General ..	..	343,278	345,264	2,184	343,080	..	
	Grand, total Special and General.	..	417,885	420,271	12,579	407,692	2,136 * + 52	
Madura—	Gundan shola plantation.	1886-87 ..	242	257	..	257	98	
	Poombarai Vilpatti Valley.	1884-85 ..	17,594	17,594	..	17,594	40	
	Aliyanuthu	1888-89 ..	4,352	4,352	..	4,352	30	
	Kudarayar	1886-87 ..	13,235	13,235	..	13,235	115	
	Kookal	1886-87 ..	11,725	11,725	..	11,725	..	
	Amburuni	1886-87 ..	13,971	13,971	..	13,971	244	
	Shengalvarayar	1885-86 ..	7,098	7,098	..	7,098	68	
	Karungal Dhoni Medu ..	1885-86 ..	3,469	3,469	..	3,469	7	
	Pambar	1883-84 ..	4,741	4,741	403	4,338	114	
	Adukam	1885-86 ..	7,520	7,520	224	7,296	266	
	Perumal Malai	1886-87 ..	2,032	2,032	986	1,046	..	
Special ..	Alagar Hill	1882-83 ..	16,838	16,838	20	16,818	68	
	Mela Gudalur	1885-86 ..	..	..	..	..	541	
	Vannathiparai	1884-85 ..	24,157	..	..	..	..	
	Kallar	1885-86 ..	..	..	..	..	..	
	Arunkaval	1883-84 ..	..	..	..	..	..	
	Vannilai	1885-86 ..	..	..	..	..	..	
	Kaniankadu	1885-86 ..	..	..	..	..	..	
	Marudanadiyar	1885-86 ..	..	..	..	..	..	
	Wahuthumalai	1884-85 ..	..	..	..	..	..	
	Sirumalai	1885-86 ..	..	..	..	..	..	
	Karandamalai	1887-88 ..	..	..	..	..	..	
	Perumalai	1891-92 ..	..	..	..	..	..	
	Mudimalai	1884-85 ..	..	..	..	..	..	
General ..	Thoppaswami Malai ..	..	..	..	..	..	..	
	Gallnut block, Machoor ..	..	..	..	..	..	..	
	Vannathiparai	..	..	..	..	..	..	
	Total, Special and General,	..	126,974	102,832	1,633	101,199	1,591 * + 81	
Tinnevelly—Special.								
Ambásamudram.	Padarmalai Working Circle.	1895-96 ..	405	540	270	270	6	
	Panniamaduku Working Circle.	1896-97 ..	210	278	..	278	..	
	Koilterai Working Circle.	1896-97 ..	235	435	50	385	..	
	Sivasailam Working Circle	1896-97 ..	241	344	..	344	2	
	Total, Ambásamudram ..	..	1,091	1,597	320	1,277	8	
Nangunéri ..	Kalakad Working Circle .	1896-97 ..	689	795	..	795	55	
	Tirukurungudi Working Circle.	1897-98 ..	47	88	1	87	50	
	Total, Nangunéri ..	..	736	883	1	882	105	

* Added as per Accountant-General's audited figures under A VIII (*f*).

Area of Forest Tracts protected from Fire during 1899-1900—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During dry season of 1899-1900.			Cost during the season.	Remarks.
				Area attempted to be protected.	Fires.	Actually protected.		
1	2	3	4	5	6	7	8	
Tinnevelly—Special—*cont.*	*Southern Circle*—cont.		ACS.	ACS.	ACS.	ACS.	RS.	
Tenkási ..	Courtallam Working Circle.	1896-97 ..	289	547	51	496	7	
	Kadayanallur Working Circle.	1897-98 ..	209	176	22	154	..	
	Total, Tenkási ..	..	498	723	73	650	7	
Sankaranayinárkovil.	Karuppasamikovil Working Circle.	1897-98 ..	362	709	86	623	..	
Srívilliputtúr.	Rangarkovil Working Circle.	1896-97 ..	422	533	..	533	..	
	Aiyanarkovil Working Circle.	1896-97 ..	939	1,144	10	1,134	72	
	Valaikulam Working Circle.	1896-97 ..	331	299	..	299	..	
	Muthaliarutha rest-house and forest guards lines.	1897-98 ..	320	320	..	320	25	
	Total, Srívilliputtúr ..	..	2,012	2,296	10	2,286	97	
	Total, Special ..	..	4,699	6,208	490	5,718	217	
General—								
Ambásamudram.	Ghaut forests II and II-(*b*)	..	84,354	86,872	4,285	84,774	40	
	Do. II-(*a*) ..	..	2,117	2,187				
Nangunéri ..	Do. I and I-(*a*).	..	52,603	52,919	865	52,054	371	
Tenkási ..	Ghaut forests III, III-(*a*) (*b*), (c_1), (c_2), (*d*) and Chinnakadu.	..	22,713	24,282	2,337	21,945	238	
Sankaranayinárkóvil.	Ghaut forests IV and IV(*a*)	..	27,184	27,321	6,297	21,024	73	
Srívilliputtúr.	Do. V and V-(*a*).	..	40,274	41,808	1,464	40,344	97	
	Total, General ..	..	229,245	235,389	15,248	220,141	819	
	Total, Special and General, Tinnevelly.	..	233,944	241,597	15,738	225,859	1,036 *— 186	
	Total, Southern Circle—							
	Special	..	333,603	321,366	15,679	*305,687	10,593	
	General	..	712,869	790,586	79,332	711,254	1,939	
	Grand Total, Southern Circle.	..	1,046,472	1,111,952	95,011	1,016,941	12,532	
	Total, Presidency—							
	Special	..	1,101,899	1,094,218	21,416	1,069,802	19,015	
	General	..	2,060,621	2,193,051	155,202	2,037,849	17,099	
	Grand Total, Presidency.	..	3,162,520	3,287,269	179,618	3,107,651	36,114	

* Deducted as per Accountant-General's audited figures under A-VIII (*f*).

N.B.—Where Collectors have not reported the figures saparately for special areas, they are shown under "General."

ANNUAL FORM No. 52.

Forest Department, Madras Presidency.

AREA closed and open to Grazing during 1899–1900.

District.	Area in square miles.						
	Closed to all animals.		Closed to both goats and sheep.		Area closed to goats only.	Open to all animals.	Total forest area as per Form No. 44.
	Whole year.	Part of year.	Whole year.	Part of year.		Whole year.	
1	2	3	4	5	6	7	8
Northern Circle.							SQ. MLS.
Ganjám	113	..	..	..	488 51	..	488 51
Vizagapatam	1	..	221 133	..	..	..	221 133
Gódávari	1	..	..	..	942 7	2 ..	944 7
Kistna	48 1	103	..	..	690 247	113 78	803 325
Kurnool	101	..	..	..	2,054 526	21 280	2,075 806
Bellary	21	..	..	..	265	350	615
Anantapur	37	..	..	..	507 3	..	507 3
Total	323	103	354	..	5,780	844	6,978
Central Circle.							
Cuddapah	13	..	..	..	2,382	* 69	2,451
Nellore	10	..	..	..	614 88	* 53 ..	667 88
Chingleput	32	..	..	..	199	* 15	214
North Arcot	106 ..	114 ..	..	..	1,183 50	.. 1	1,183 51
South Arcot	16	..	..	..	685 24	..	685 24
Salem	63	27	..	..	1,188 183	69 ‖ 13	1,257 196
Trichinopoly	29	16	..	..	240 78	..	318
Tanjore	1	..	..	..	18	† ..	18
Total	270	157	..	..	6,932	220	7,152
Southern Circle.							
South Canara	15 1	..	..	..	‡ 497 ‡ 596	..	497 596
Malabar, North	52	..	..	..	52	220	272
Do. South	§ 328	..	328	..	..	..	328
The Nilgiris	4 11	..	..	..	389 100	..	389 100
Coimbatore, North	92	..	14	..	1,625	..	1,639
Do. South	..	265	..	..	657 1	..	658
Madura	15 1	..	..	..	597 14	..	597 14
Tinnevelly	284	45	..	..	418 11	..	418 11
Total	803	310	342	..	4,957	220	5,519
Grand Total, Presidency	1,396	570	696	..	17,669	1,284	19,649
1898–99	1,824	132	2,054	..	16,421	1,119	19,514

N.B.—The totals of columns 4, 6 and 7 equal column 8. The figures in columns 6 and 4 include the figures in columns 2 and 3. Of the figures in brackets the upper one denotes area of reserved forests and the lower the area of reserved lands.

* Reserved for goats.
† Goats were allowed in 168 acres in Vettangudi reserved forest.
‡ Goats and sheep are reported to be almost nonexistent in the district.
§ No demand for grazing.
‖ Goats were allowed in nine reserves.

FORM

RETURN of Grazing in the State Forests of the

(a) *Reserved forests notified under*

Districts.	Grazing on payment. Number of animals. At enhanced rates. Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Fees received.	At full rates. Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Fees received.
Northern Circle.					RS.					RS.
Ganjám	..	..	..	..	..	5,902	25,492	(a) 950	..	7,089
Vizagapatam	(b) 107	(b) 2,586	..	..	700	758	12,070	..	..	2,548
Gódávari (x)	260	428	..	..	356	555	3,182	1,281	..	1,411
Kistna (z)	(f) 23,809 (g) 2,202 (h) 384 ..	(f) 4,761 (g) 8,870 (h) 259 (j) 195	.. ..	.. ..	9,821 3,819 322 195	31,166	91,271	313,162	546	58,262
Kurnool (c)	2,343	51,008	1,395	..	14,098	4,115	55,495	138,872	..	24,968
Bellary	..	..	..	..	..	9,206	36,341	217,136	..	30,622
Anantapur	..	..	..	..	..	1,566	28,445	(a) 23,669	..	8,139
Total, Northern Circle ..	29,105	68,107	1,395	..	28,811	53,268	252,296	695,070	546	1,33,032
Central Circle.										
Cuddapah (z)	..	..	..	..	..	3,209	106,856	(e) 140,435	..	34,405
Nellore	..	..	..	..	..	7,538	50,703	184,714	..	29,650
Chingleput	..	..		..	..	2,739	29,259	56,354	.	11,796
North Arcot	..	..	..	..	..	2,150	78,909	49,715	..	20,304
South Arcot	(i) 10	(i) 24,769	..	..	6,197	2,751	68,548	(a) 81,999	..	21,572
Salem (n)	1,147	68,500	13,336	..	19,697	2,374	131,628	40,033	..	29,434
Trichinopoly	..	..	..	..	..	397	14,400	(a) 46,928	..	7,248
Tanjore (z)	..	..	..	..	..	439	2,685	3,027	40	959
Total, Central Circle ..	1,157	93,269	13,336	..	25,894	21,597	482,988	602,205	40	1,55,368
Southern Circle.										
South Canara	..	..	..	..	..	1,546	10,408	..	..	2,531
North Malabar (z)	..	..	..	..	..	971	2,518	..	..	(o) 936
South Malabar (p)	..	..	..	..	..	..	..	..	..	..
The Nilgiris	..	..	..	..	..	8,970	18,192	498	..	(s) 7,351
North Coimbatore (b)	6,855	154,931	23,071	2	45,045	156	3,944	..	..	798
South Coimbatore	..	..	..	..	..	326	31,741	6,338	..	6,668
Madura (w)	279	41,423	16,042	2	12,051	..	..	..	..	..
Tinnevelly	..	..	..	..	..	412	13,633	22,773	..	4,846
Total, Southern Circle ..	7,134	196,354	39,113	4	57,096	12,381	80,436	29,609	..	23,130
Grand Total, Reserved Forest, Presidency	37,396	357,730	53,844	4	1,11,801	87,246	815,720	1,327,884	586	3,11,530

N.B.—Full rates are the ordinary sanctioned.

(a) Sheep. (b) Enhanced rates at As. 8 per buffaloe and As. 4 per cow or bullock and As. 2 per goat were collected. quarterly permits at ¼ rates are being issued. As grazing permits are being issued according to working circles which contain reserved.

(d) As. 2 per cow and anna 1 per goat or sheep. (e) Of these 13,140 were goats. (f) Double rates.

(h) Enhanced rate at the rate of As. 8 per buffaloe, As. 8 per cow or bullock were collected in Bezwada and Ganadala reserves.

(j) Special rates of Re. 1 per plough bullock was levied in Jaggarapettah extension 5. (k) As. 2 per cow.

(m) This figure represents the number of cattle admitted free in the Tenmalai block of the Tiruvannamalai range for the Malayalis

(n) The enhanced rates charged were As. 8, 4 and 2 per buffaloe, cow and sheep or goat respectively. At these rates, the fees should

(o) Includes Rs. 100 realized from proprietor of an estate for the right of grazing in Begur reserve. (p) Grass is cut and no

(q) Includes compensation fees, arrear collection grazing fees, &c. (s) At the ordinary sanctioned maximum rates, the

(t) Daily rates at As. 3 per hundred per diem were collected. (x) The enhanced rates are As. 12 per buffaloe and As. 6 per division As. 2 per buffaloe, anna 1 per bull or cow and 6 pies per sheep or goat; 1 anna on cattle owned by Telegas. As. 2 per Even at these rates the fees should amount to Rs. 1,233 and not Rs. 1,411 as entered by the Collector in his statement.

(z) Details for reserved forests and reserved lands have not been shown separately by Collectors. In Cuddapah no distinction is made separately.

No. 53.

Madras Presidency during 1898–99.

section 16 *of the Forest Act.*

Grazing free. Number of animals.																Grand total of value at full and enhanced rates.
At privileged rates.				Fees received.		By right under settlement.					During pleasure of Government or otherwise than under settlement.					
Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Actual.	Value at full rates.	Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Value of fees at full rates.	Buffaloes.	Cows and bullocks	Goats and sheep.	Other animals.	Value of fees at full rates.	Total value of fees at full rates for animals grazed free.	
				Rs.	Rs.					Rs.					Rs.	Rs.	Rs.
..	..	..	..	..	..		..	..	..	..	..	..	..	..	..	..	7,082
..	..	..	..	..	..		200	..	..	38	..	240	..	..	54	92	3,340
17,161	55,353	6,881	..	8,253	17,459	..	..	..	..	..	685	7,586	..	..	1,679	1,679	20,905
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	71,919
..	..	..	..	..	..	..	2,485	5,505	..	981	..	..	..	..	..	981	40,047
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	30,622
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8,139
17,161	55,353	6,881	..	8,253	17,459	..	2,685	5,505	..	1,019	685	7,876	..	..	1,733	2,752	1,82,054
..	(*d*) 64	105	..	15	22	..	1,900	..	..	356	..	..	..	..		356	34,783
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	29,650
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	11,796
..	(*e*) 1,746	..	..	218	327	..	..	..	..		..	..	..	..	..	..	20,631
(*l*) 38	150	..	..	28	42	..	..	..	..		(*m*) 1,385	4,928	341	..	1,475	1,475	29,286
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	49,131
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7,248
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	959
38	1,960	105	..	261	391	..	1,900	..	..	356	(*m*) 1,385	4,928	341	..	1,475	1,831	1,83,484
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2,531
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	936
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	(*i*) 4,171	..	..	164	782	..	..	..	..	..	..	..	..	..	..	..	8,133
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	(*g*) 46,137
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6,668
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	12,051
..	..	..	..	..	..	..	..	..	..	..	25	245	..	..	55	55	4,901
..	4,171	..	..	164	782	..	..	..	..	..	25	245	..	..	55	55	81,357
17,199	61,484	6,986	..	8,678	18,632	..	4,585	5,505	..	1,375	2,095	13,049	341	..	3,263	4,638	4,46,895

maxima, viz, As 6 per buffaloe, &c.

(*c*) Enhanced rates for grazing tracts inside "Sim's line" are Rs. 2, 1 and As. 8 per buffaloe, cow and goat or sheep respectively, but forest and reserved lands the number of cattle grazed in each cannot be stated separately.

(*g*) As. 8 per buffaloe, As. 4 per cow or bullock and As. 2 per sheep or goat in the Kondavid, Mangalagiri, Weld and Kondapalli reserves.

(*i*) The enhanced rates of As. 8 per buffaloe and As. 4 per cow were levied on foreign cattle.

(*l*) In the Tenmalais As. 4 per buffaloe and As. 2 per cow were collected.

on the hills.

amount to Rs. 19,365 and not Rs. 19,697.

grazing fee is levied.

fees should amount to Rs. 6,821 and not Rs. 7,351.

bull or cow. The privileged rates are As. 4 per buffaloe, As. 2 per bull or cow and anna 1 per sheep in the main division, and in the sub-head of delta cattle. The full rates collected were As. 8 per buffaloe, As. 4 per cow, 1½ annas per sheep and As. 2 per goat.

(*w*) Enhanced fees at the rates of As. 8, 4 and 2 per buffaloe, cow and sheep respectively were collected.

between reserved forests and lands in issuing licenses for grazing. Hence it is impossible to give details for reserved forests and lands.

FORM

Return of Grazing in the State Forests of the

(b) *Reserved*

Districts.	Grazing on payment. Number of animals.									
	At enhanced rates					At full rates.				
	Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Fees received.	Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Fees received.
Northern Circle.					Rs.					Rs.
Ganjám	..	..	..	..	..	823	2,096	(e) 66		708
Vizagapatam	..	..	..	..	..	..	..	..	..	..
Gódávari	..	..	..	..	..	..	..	..	..	..
Kistna	..	..	..	..	..	..	..	..	..	..
Kurnool	..	..	..	..	..	..	..	..	..	..
Bellary	..	..	..	..	..	556	1,530	7,493	..	1,198
Anantapur	..	..	..	..	..	..	..	..	..	..
Total, Northern Circle	..	..	..	..	..	1,379	3,626	7,559	..	1,906
Central Circle.										
Cuddapah	..	..	..	..	..	..	..	..	..	..
Nellore	..	..	..	..	..	1,559 (a) 818	7,758 4,904	29,705 11,688	..	4,824 2,322 (b) 474
Chingleput	..	..	..	..	..	..	..	..	..	..
North Arcot	..	..	..	..	..	109	1,619	903	..	429
South do.	..	587	..	..	147	20	1,981	(e) 628	..	438
Salem (c)	124	7,013	174	..	1,837	..	..	..	..	..
Trichinopoly	..	..	..	..	..	152	9,162	43,530	..	5,856
Tanjore	..	..	..	..	..	..	..	..	..	..
Total, Central Circle	124	7,600	174	..	1,984	2,658	25,424	86,454	..	14,343
Southern Circle.										
South Canara	..	..	..	..	..	1,773	10,956	..	..	2,719
North Malabar	..	..	..	..	..	..	..	..	..	..
South do.	..	..	..	..	..	..	..	..	..	..
The Nilgiris	..	..	..	..	..	..	..	..	..	..
North Coimbatore	..	..	..	..	..	..	..	..	..	..
South do.	..	..	..	..	..	..	..	..	..	..
Madura (c)	52	1,423	291	..	418	..	..	..	..	..
Tinnevelly	..	..	..	..	..	44	496	873	..	191
Total, Southern Circle	52	1,423	291	..	418	1,817	11,452	873	..	2,910
Grand Total, Reserved Lands, Presidency	176	9,023	465	..	2,402	5,854	40,502	94,886	..	19,159
Northern Circle, Reserved Forest and Reserved Lands	29,105	68,107	1,395	..	28,811	54,647	255,922	702,629	546	1,34,938
Central Circle, Reserved Forest and Reserved Lands	1,281	100,869	13,510	..	27,878	24,255	508,412	689,659	40	1,69,711
Southern Circle, Reserved Forest and Reserved Lands	7,186	197,777	39,404	4	57,514	14,198	91,888	30,482	..	26,040
Grand Total, Presidency	37,572	366,753	54,309	4	1,14,203	93,100	856,222	1,422,770	586	3,30,689

(a) On unreserved lands.
(b) Kancha rent.
(c) Enhanced fees at the rate of As. 8, 4 and 2 per buffaloe, cow and sheep or goat respectively were collected.
(d) Grazing in Rampa unreserved lands.
(e) Sheep.
(f) Fees collected from grazing leases, &c., in unreserved lands.

No. 53—*cont.*

Madras Presidency during 1899-00—*cont.*

lands.

At privileged rates.						Grazing free. Number of animals.											Grand total of value at full and enhanced rates.
				Fees received.		By right under settlement.					During pleasure of Government or otherwise than under settlement						
Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Actual.	Value at full rates.	Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Value of fees at full rates.	Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Value of fees at full rates.	Total value of fees at full rates for animals grazed free.	
				Rs.	Rs.					Rs.					Rs.	Rs.	Rs.
..	..	..	..	..	..	..	..	..	..	.	..	..	..	..	..	..	708
..	..	..	..	..	..	..	.	..	..	..	..	..	..	..	.	..	..
4 (*d*)2,463	8 (*d*)6,522	..	..	1 1,123 (*f*)729	3 2,147 ..	..	..	..	..	..	..	..	..	..	..	..	2,150
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1,198
..	..	..	..	..	..	.		..	..	..	..	..	..	.	..	..	..
2,467	6,530	..	.	1,853	2,150	..	..	.	..	..	..	..	..	..	..	..	4,056
..	..	..	..	..	..	.	..	..	..	..	..	..	..	..	..	..	..
..	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..	7,620
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	429
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	585
..	..	..	..	..	..	..	..	..	..	.	..	..	..	..	..	..	1,837
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5,856
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	.	..	..	16,327
..	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..	2,719
..	..	..	..	..	..	..	..	..	..	..	..	..	.	.	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	.	..	233	..	.	..	87	..	..	..	..	..	87	87
..	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	418
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	191
..	..	..	..	..	..	233	..	..	..	87	.	..	..	..	.	87	3,415
2,467	6,530	..	..	1,853	2,150	233	..	..	..	87	..	..	..	..	..	87	23,798
19,628	61,883	6,881	..	10,106	19,609	..	2,685	5,505	..	1,019	685	7,876	..	..	1,733	2,752	1,86,110
38	1,960	105	..	261	391	..	1,900	..	..	356	1,385	4,928	341	..	1,475	1,831	1,99,811
..	4,171	..	..	164	782	233	..	..	..	87	25	245	..	..	55	162	84,772
19,666	68,014	6,986	..	10,531	20,782	233	4,585	5,505	..	1,462	2,095	13,049	341	..	3,263	4,745	4,70,693

ANNUAL FORM No. 54.

Forest Department, Madras Presidency.

AREA of Plantations, Cultural Operations and Topes, 1899-1900.

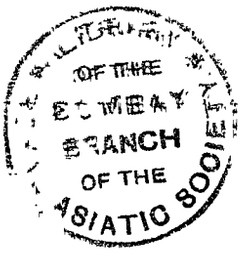
	District.	Number of plantations and topes.	Area in acres. On 1st July 1899.	Area in acres. Added during the year.	Area in acres. Excluded during the year.	Area in acres. Area on 30th June 1900.	Receipts. Of the year.	Charges. Of the year.
	1	2	3	4	5	6	7	8
			A. Regular Plantations.				RS.	RS
Northern Circle.	Ganjam	1	348		..	348	18	241
	Godávari	3	175	77	.	252	451	3,469
	Kistna	17	1,882	13	..	1,895	1,051	1,662
	Total, Northern Circle ..	21	2,405	90	..	2,495	1,520	5,372
Central Circle.	Cuddapah	..	2,100	..	..	2,100	234	493
	Nellore	11	3,420	362	327	3,455	..	9,665 (a) 514
	Chingleput	1	69	.	..	69	1,337	(b) 419
	North Arcot	6	1,160	9	..	1,169	3,040	503
	South Arcot	12	8,610	..	380	8,230	3,394	2,686
	Tanjore	4	539	.	..	539	1,716	1,172
	Total, Central Circle ..	34	15,898	371	707	15,562	9,721	14,424
Southern Circle.	South Canara	3	95	.	..	95	1,254	172 (a)— 47
	North Malabar	..	408	.	..	408	..	..
	South Malabar	20	4,720	80	.	4,800	36,594	(a) 7,728
	The Nilgiris	22	1,645	..	..	1,645	13,921	7,691 (a)+ 3
	South Coimbatore	8	29	1	..	30	..	123
	Madura	5	266	8	..	274	..	1,078 (a)+ 169
	Tinnevelly	2	25	1	..	26	..	124
	Total, Southern Circle ..	60	7,188	90	..	7,278	51,769	17,041
	Grand Total, Regular Plantations, Presidency.	115	25,491	551	707	25,335	63,010	36,837
			B. Cultural Operations.					
Northern Circle.	Direction	..	..	.	..	..	..	347
	Ganjám	..	404	..	.	404	2	151 (a)+ 12
	Kistna	.	35	..	..	35	33	298
	Kurnool	..	..	.	..	..	..	90 (a)+ 249
	Bellary	..	262	22	208	76	..	1,270 (a)+ 20
	Anantapur	..	32	94	91	35	..	345 5
	Total, Northern Circle		733	116	299	550	45	2,777
Central Circle.	Cuddapah	..	596	..	..	596	105	205 (a)+ 237
	Nellore	..	1,136	..	..	1,136	..	..
	Chingleput		175	..	..	175	..	86
	North Arcot		1,116	..	..	1,116	..	934
	South Arcot		..	..	.	..	..	(a) 312
	Trichinopoly	..	.24 MLS. 91	..	..	24 MLS. 91	805	726
	Tanjore	..	1,076	55	..	1,131	69	3
	Total, Central Circle ..	.	4,123 MLS. 91	55	..	4,178 MLS. 91	979	2,503
Southern Circle.	The Nilgiris		484	..	..	484	..	230
	South Coimbatore	..	29	8	..	37	..	23 (a)+ 25
	Tinnevelly	..	3,398	40	..	3,438	..	336 (a)— 109
	Total, Southern Circle ..	..	3,911	48	..	3,959	..	505
	Grand Total, Cultural Operations, Presidency.	..	8,767 MLS. 91	219	299	8,687 MLS. 91	1,024	5,785

(a) Added or deducted as per Accountant-General's audited figures under A-VIII (e).
(b) Includes also the cost incurred in the maintenance of the topes in the district.

Area of Plantations, Cultural Operations, and Topes, 1899–1900—*cont.*

District.		Number of plantations and topes.	Area in acres. On 1st July 1899.	Added during the year.	Excluded during the year.	Area on 30th June 1900	Receipts. Of the year.	Charges. Of the year.
1		2	3	4	5	6	7	8
			C. Topes.					
							Rs.	Rs.
Northern Circle.	Ganjám	7	101	..	..	101	22	..
	Vizagapatam	2	78	..	..	78	..	(*a*) 378
	Kistna	14	136	..	..	136	10	192
	Kurnool	30	206	..	..	206	30	137
	Bellary	30	212	..	..	212	..	59
	Anantapur	905	2,885	..	..	2,885	..	(*b*) 134
	Total, Northern Circle ..	988	3,618	..	..	3,618	62	900
Central Circle.	Cuddapah	60	3,630	..	376	3,254	976	185
	Nellore	112	1,776	..	..	1,776	..	..
	Chingleput	17	230	..	..	230	560	..
	North Arcot	22	498	..	..	498	407	495
	South Arcot	63	462	..	3	459	98	26
	Salem	126	1,598	..	..	1,598	..	116
	Trichinopoly	19	573	..	..	573	1,197	(*a*) 156
	Total, Central Circle ..	419	8,767	..	379	8,388	3,238	978
Southern Circle.	North Malabar	..	56	..	..	56	..	(*a*) 2,197
	South do.	1	20	..	..	20	5	..
	North Coimbatore	4	209	..	..	209	..	244 / —(*a* 54
	South do.	23	267	..	..	267	..	..
	Tinnevelly	9	84	..	..	84	7	54
	Total, Southern Circle ..	37	636	..	..	636	12	2,441
	Grand Total, Topes, Presidency ..	1,444	13,021	..	379	12,642	3,312	4,319
	Northern Circle, Plantations, Cultural operations and Topes	1,009	6,756	206	299	6,663	1,627	9,049
	Central Circle, Plantations, Cultural operations and Topes	453	28,788 Mls. 91	426	1,086	28,128 Mls. 91	13,938	17,905
	Southern Circle, Plantations, Cultural operations and Topes . ..	97	11,735	138	..	11,873	51,781	19,987
	Grand Total, Presidency	1,559	47,279 Mls. 91	770	1,385	46,664 Mls. 91	67,346	46,941

(*a*) Added or deducted as per Accountant-General's audited figures. (*b*) Establishment charges.



Form No. 55.

Forest Department, Madras Presidency.

Outturn (in cubic feet, solid) of Timber and Fuel during the year 1899–1900, and Agency of Exploitation.

District.	Timber.					Fuel.					Total.	Bamboos.				
	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Outturn.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Northern Circle.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	NO.	NO.	NO.	NO.	NO.
Ganjám.																
Reserved forests—																
Sal	8,696	..	..	..	8,696	..	..	..	..	..	..	..	..	..	..	..
Miscellaneous	27,473	60,031	1,550	..	89,054	..	..	..	..	..	..	..	..	..	..	..
Total ..	36,169	60,031	1,550	..	97,750	660	481,581	..	..	482,241	579,991	..	1,195,705	30,400	..	1,226,105
Reserved lands—																
Sal	..	402	..	..	402	..	..	..	..	..	..	..	..	..	..	..
Miscellaneous	..	6,936	..	..	6,936	..	..	..	..	..	..	..	..	..	..	..
Total ..	..	7,338	..	..	7,338	..	77,634	..	..	77,634	84,972	..	239,100	..	..	239,100
Unreserved lands—																
Sal	5,700	12,445	..	..	18,145	..	..	..	..	..	..	..	..	..	..	..
Miscellaneous	79,780	56,591	..	..	136,371	..	..	..	..	..	..	..	..	..	..	..
Total ..	85,480	69,036	..	..	154,516	..	71,455	..	..	71,455	225,971	..	34,635	..	..	34,635
Grand Total ..	121,649	136,405	1,550	..	259,604	660	630,670	..	..	631,330	890,934	..	1,469,440	30,400	..	1,499,840
Vizagapatam.																
Reserved forests—																
Miscellaneous	100	21,440	3,100	..	24,640	23,874	124,331	..	..	148,205	172,845	..	482,216	28,700	..	510,916
Reserved lands—																
Miscellaneous	..	29,759	..	..	29,759	..	117,999	..	..	117,999	147,758	..	194,066	..	..	194,066
Unreserved lands—																
Ironwood	30	..	..	..	30	..	..	..	..	..	..	..	..	..	..	..
Terminalia tomentosa	342	7,180	..	..	7,522	..	..	..	..	..	..	..	..	..	..	..
Miscellaneous	..	..	3,050	..	3,050	..	..	..	..	..	..	..	..	..	..	..
Total ..	372	7,180	3,050	..	10,602	4,062	15,795	..	..	19,857	30,459	..	5,140	11,520	..	16,660
Grand Total ..	472	58,379	6,150	..	65,001	27,936	258,125	..	..	286,061	351,062	..	681,422	40,220	..	721,642

Outturn (in cubic feet, solid) of Timber and Fuel during the year 1899–1900, and Agency of Exploitation—*cont.*

District.	Timber.					Fuel.					Total.	Bamboos				
	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Outturn.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
NORTHERN CIRCLE.—*cont.*	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	NO.	NO.	NO.	NO.	NO.
Gódávari.																
Reserved forests—																
Teak	..	110	..	..	110	..	..	..	..	..	..	..	..	..	..	..
Ironwood	3,903	..	..	..	3,903	..	..	..	..	..	..	..	..	..	..	..
Terminalia tomentosa	..	734	..	..	734	..	..	..	..	..	..	..	..	..	..	..
Miscellaneous	300	133,586	2,347	..	136,233	..	..	..	..	..	..	..	..	..	..	..
Total ..	4,203	134,430	2,347	..	140,980	..	414,100	848	..	414,948	555,928	..	5,084,216	2,000	..	5,086,216
Reserved lands—																
Ironwood	..	..	60	..	60	..	..	..	..	..	..	..	..	..	..	..
Terminalia tomentosa	..	..	20	..	20	..	..	..	..	..	..	..	..	..	..	..
Miscellaneous	..	480	20	..	500	..	..	..	..	..	..	..	..	..	..	..
Total ..	..	480	100	..	580	..	..	..	..	..	580	..	..	250	..	250
Unreserved lands—																
Teak	34	212,583	..	..	212,617	..	..	..	..	..	..	..	..	..	..	..
Rosewood	3	..	..	..	3	..	..	..	..	..	..	..	..	..	..	..
Vengai	48	6,875	..	..	6,923	..	..	..	..	..	..	..	..	..	..	..
Ironwood	..	..	333	..	333	..	..	..	..	..	..	..	..	..	..	..
Terminalia tomentosa	..	57,991	20	..	58,011	..	..	..	..	..	..	..	..	..	..	..
Miscellaneous	72	223,264	9,738	..	233,074	..	..	..	..	..	..	..	..	..	..	..
Total ..	157	500,713	10,091	..	510,961	..	213,919	200	..	214,119	725,080	..	4,020,565	3,950	..	4,024,515
Grand total ..	4,360	635,623	12,538	..	652,521	..	628,019	1,048	..	629,067	1,281,588	..	9,104,781	6,200	..	9,110,981
Kistna.																
Reserved forests—																
Miscellaneous	4,618	48,124	1,180	..	53,922	1,340	413,127	..	..	414,467	468,389	1,205	197,660	..	..	198,865
Reserved lands—																
Miscellaneous	..	1,106	..	..	1,106	..	1,133	..	..	1,133	2,239	..	..	..	..	..
Unreserved lands—																
Miscellaneous	..	126,070	1,810	..	127,880	..	21,692	..	..	21,692	149,572	..	..	..	..	..
Grand total ..	4,618	175,300	2,990	..	182,908	1,340	435,952	..	..	437,292	620,200	1,205	197,660	..	..	198,865

Outturn (in cubic feet, solid) of Timber and Fuel during the year 1889–1900, and Agency of Exploitation—*cont.*

District.	Timber.					Fuel.					Total.	Bamboos.				
	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Outturn.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
NORTHERN CIRCLE—*cont.*	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	No.	No.	No.	No.	No.
Kurnool.																
Reserved forests—																
Teak	647	..	..	..	647	..	..	..	..	..	..	..	..	..	..	..
Vengai	2,563	..	..	..	2,563	..	..	..	..	..	..	..	..	..	..	..
Terminalia tomentosa ..	1,897	8	..	..	1,905	..	..	..	..	..	..	..	..	..	..	..
Miscellaneous	78,668	181,862	2,850	1,311	1,94,691	..	..	..	..	..	..	..	..	..	..	..
Total ..	13,775	181,870	2,850	1,311	1,99,806	109,374	158,878	..	257,510	525,762	725,568	3,735	3,682,176	16,500	20,489	3,722,899
Reserved lands—																
Miscellaneous	..	27,430	3,720	..	31,150	..	118,959	..	..	118,959	150,109	..	37,800	23,120	..	60,920
Unreserved lands—																
Miscellaneous	..	21,269	700	..	21,969	120	48,152	..	..	48,272	70,241	..	..	..	..	..
Grand Total ..	13,775	230,569	7,270	1,311	252,925	109,494	325,989	..	257,510	692,993	945,918	3,735	3,719,975	39,620	20,489	3,783,819
Bellary.																
Reserved forests—																
Redwood	..	120	..	..	120	..	..	..	..	..	..	..	..	..	..	..
Terminalia tomentosa ..	..	220	..	..	220	..	..	..	..	..	..	..	..	..	..	..
Miscellaneous	..	4,819	..	..	4,819	..	..	..	..	..	..	..	..	..	..	..
Total ..	..	5,159	..	..	5,159	..	161,211	..	..	161,211	166,370	..	2,635	..	..	2,635
Reserved lands—																
Teak	1,110	..	..	..	1,110	..	..	..	..	..	..	..	..	..	..	..
Sandalwood	16	..	..	..	16	..	..	..	..	..	..	..	..	..	..	..
Miscellaneous	22,171	3,709	..	..	25,880	..	..	..	..	..	..	..	..	..	..	..
Total ..	23,297	3,709	..	..	27,006	148,462	34,019	..	..	182,481	209,487	306	93,100	..	..	93,406
Unreserved lands—																
Miscellaneous	..	50,768	1,184	..	51,952	2,290	120,680	..	..	122,970	174,922	..	..	..	..	..
Grand Total ..	23,297	59,636	1,184	..	84,117	150,752	315,910	..	..	466,662	550,779	306	95,735	..	..	96,041

Outturn (in cubic feet, solid) of Timber and Fuel during the year 1899-1900, and Agency of Exploitation—*cont.*

District.	Timber.					Fuel.					Total.	Bamboos.				
	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Outturn.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
NORTHERN CIRCLE—*cont.*	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT	C. FT.	C. FT.	NO.	NO.	NO.	NO.	NO.
Anantapur.																
Reserved forests—																
Miscellaneous	..	6,840	500	..	7,340	..	49,816	..	..	49,816	57,156	..	4,675	..	..	4,675
Unreserved lands—																
Miscellaneous	..	10,764	..	..	10,764	..	54,493	..	..	54,493	65,257	..	..	..	..	..
Grand Total ..	..	17,604	500	..	18,104	..	104,309	..	..	104,309	122,413	..	4,675	..	..	4,675
CENTRAL CIRCLE.																
Cuddapah.																
Reserved forests—																
Redwood	43,623	..	..	..	43,623	..	..	..	..	..	..	..	..	..	..	..
Miscellaneous	10,520	117,785	7,030	..	135,335	..	..	..	..	..	..	..	..	..	..	..
Total ..	54,143	117,785	7,030	..	178,958	15,159	408,149	..	..	423,308	602,266	8,400	1,390,786	29,800	..	1,428,986
Unreserved lands—																
Miscellaneous	..	48,686	..	..	48,686	..	120,870	..	..	120,870	169,556	..	..	..	..	..
Grand Total ..	54,143	166,471	7,030	..	227,644	15,159	529,019	.	.	544,178	771,822	8,400	1,390,786	29,800	..	1,428,986
Nellore.																
Reserved forests—																
Miscellaneous	420	19,997	..	..	20,417	543,449	90,659	..	..	634,108	654,525	..	2,072	..	..	2,072
Unreserved lands—																
Miscellaneous	..	41,396	4,492	..	45,888	..	15,371	..	..	15,371	61,259	..	..	..	..	..
Grand Total ..	420	61,393	4,492	..	66,305	543,449	106,030	.	..	649,479	715,784	..	2,072	..	..	2,072
Chingleput.																
Reserved forests—																
Miscellaneous	..	1,222	..	..	1,222	740	114,535	..	..	115,275	116,497	..	15,860	..	..	15,860
Reserved lands—																
Miscellaneous	..	80	..	..	80	..	12,000	..	..	12,000	12,080	..	69	..	..	69
Unreserved lands—																
Miscellaneous	..	74,305	60	..	74,365	31,957	59,468	..	..	91,425	165,790	..	22,631	5	..	22,636
Grand Total ..	..	75,607	60	..	75,667	32,697	186,003	..	..	218,700	294,367	..	38,560	5	..	38,565

Outturn (in cubic feet, solid) of Timber and Fuel during the year 1899–1900, and Agency of Exploitation—*cont.*

District.	Timber.					Fuel.					Total.	Bamboos.				
	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Outturn.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
CENTRAL CIRCLE—*cont.*	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	NO.	C. FT.	NO.	NO.	NO.
North Arcot.																
Reserved Forests—																
Miscellaneous	1,069	26,040	2,620	..	29,729	12,873	135,980	..	.	148,853	178,582	2,834	55,175	1,000	..	59,009
Unreserved lands—																
Miscellaneous	..	27,016	4,720	..	31,736	..	92,084	..	..	92,084	123,820	..	.			..
Grand Total ..	1,069	53,056	7,340		61,465	12,873	228,064			240,937	302,402	2,834	55,175	1,000		59,009
South Arcot.																
Reserved Forests—																
Teak	190		..	..	190	..	..	..	..		..	.	..	..		..
Sandalwood	70	..	..	..	70	..	..	..	..	.	..	..	..	..	..	..
Miscellaneous	120	10,124	.	..	10,244	..	..	..	..	..		..	..	.	..	..
Total ..	380	10,124	..	..	10,504	14,103	103,355	400	.	117,858	128,362	63,033	773,580	..	..	836,613
Reserved lands—																
Miscellaneous	..	408	..	.	408	500	3,200	..	..	3,700	4,108	..	..	.		..
Unreserved lands—																
Miscellaneous	..	14,205	..	..	14,205	..	150,387	..		150,387	164,592	..	..	..	.	..
Grand Total ..	380	24,737	..	..	25,117	14,603	256,942	400	..	271,945	297,062	63,033	773,580	.	..	836,613
Salem.																
* Reserved Forests—																
Sandalwood	545	..	..	..	545	..	..	..	..	..	..	..	..	..	..	..
Miscellaneous	1,604	100,650	460	..	102,714	..	..	..	..	..	..	..	.	..	..	..
Total ..	2,149	100,650	460	..	103,259	1,512,742	214,632	..	..	1,727,374	1,830,633	6,700	6,199,719	11,000	..	6,217,419
Trichinopoly.																
Reserved Forests—																
Miscellaneous	..	12,046	..	..	12,046	75,258	65,514	..	..	140,772	152,818	..	141,963	..	..	141,963
Reserved lands—																
Miscellaneous	..	223	..	..	223	..	1,977	..	..	1,977	2,200	..	8,156	..	..	8,156
Unreserved lands—																
Miscellaneous	..	12,864	1,749	..	14,613	..	1,700,595	..	..	1,700,595	1,715,208		3,045	555	..	3,600
Grand Total ..	..	25,133	1,749	..	26,882	75,258	1,768,086	..	..	1,843,344	1,870,226	..	153,164	555	..	153,719

* Figures for the several forests, *i.e.*, Reserved forests, Reserved lands, etc., for the several species have not been given separately by the Collector.

Outturn (in cubic feet, solid) of Timber and Fuel during the year 1899–1900, and Agency of Exploitation—*cont.*

District.	Timber.					Fuel.					Total.	Bamboos.				
	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Government.	Purchasers.	Free-grantees	Right-holders.	Total.	Outturn.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
CENTRAL CIRCLE—*cont.*	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	NO.	NO.	NO.	NO.	NO.
Tanjore.																
Reserved forests—																
Miscellaneous	..	9,192	..	..	9,192	..	134,363	..	..	134,363	143,555	..	.	..	.	..
Unreserved lands—																
Miscellaneous	..	320	..	..	320	.	335,877	..		335,877	336,197	.	2,268	..		2,268
Grand total ..	..	9,512	..	..	9,512	.	470,240	..	..	470,240	479,752	..	2,268	..	.	2,268
SOUTHERN CIRCLE.																
South Canara.																
Reserved forests—																
Teak	3,464	317	..	..	3,781	..	..	..	..	..	..	..	..	..	.	.
Rosewood	..	58		..	58	..	..	.	..	.	.	..	..	..	..	..
Ironwood	40	.	..	..	40	..	..	.	.	..	.	..	..	..	..	.
Hopea		699	..	..	699	..	..	..	..	..	..	..	..	..	..	..
Terminalia tomentosa . ..	45	715	..	..	760	..	..	..	..	..	..	.	..	..		..
Miscellaneous	200	439	..	..	639	..	..	.	..	..	..	..	..	..	..	..
Total ..	3,749	2,228	..	..	5,977	10,611	124,781		..	135,392	141,369	915	71,458	..	..	72,373
Reserved lands—																
Teak	45	401	..	..	446	..	..	..	..	..	..	..	..	..	..	.
Rosewood	15	..	..	..	15	..	..	..	..	..	..	..	..	..	..	.
Vengai	199	..		.	199	..	..	..	..	..	..	..	..	..	.	..
Ironwood	8,850	..	..	..	8,850	..	..	..	..	..	.	..	..	..	..	..
Hopea	218	613	..	..	831	..	..	..	..	..	..	..	..	..	..	..
Terminalia tomentosa	5,296	1,398	..	.	6,694	..	..	..	..	..	.	..	..	.	..	..
Miscellaneous	13,887	105	..	..	13,992	..	..	..	..	..	..	..	..	..	.	..
Total ..	28,510	2,517	..	..	31,027	7,199	158,902	..	..	166,101	197,128	..	31,742	..	.	31,742
Unreserved lands—																
Teak	..	212	..	..	212	..	..	..	..	..	..	..	..		..	..
Rosewood	..	75	..	..	75	..	..	..	..	..	..	..	..	..	..	..
Ironwood	..	310	..	..	310	..	..	..	..	..	..	..	..	..	..	..
Hopea	..	135	343	..	478	..	..	..	..	..	..	..	..			..
Terminalia tomentosa	..	413	..	..	413	..	..	..	..	..	..	..	..	..	..	..
Miscellaneous	..	2,033	..	..	2,033	..	..	..	..	..	..	.	..	.	.	..
Total ..	..	3,178	343	..	3,521	..	598,045	..	..	598,045	601,566	..	..	..	..	..
Grand total ..	32,259	7,923	343	..	40,525	17,810	881,728	..	..	899,538	940,063	915	103,200	..	..	104,115

Outturn (in cubic feet, solid) of Timber and Fuel during the year 1899–1900, and Agency of Exploitation—*cont.*

District.	Timber.					Fuel.					Total.	Bamboos.				
	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Outturn.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
SOUTHERN CIRCLE—*cont.*	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	NO	NO.	NO.	NO.	NO.
* *North Malabar.*																
Reserved Forests—																
Teak	88,331	11,126	..	..	99,457	..	..	..	..	..	..	..	..	..	..	..
Rosewood	1,692	250	..	..	1,942	..	..	..	..	..	..	..	..	..	..	..
Vengai	10,099	530	..	..	10,629	..	..	..	..	..	..	..	..	..	..	..
Miscellaneous	15,897	3,739	3,520	..	23,156	..	..	..	..	..	..	..	..	..	..	..
Grand Total ..	116,019	15,645	3,520	..	135,184	1,400	2,580	1,760	..	5,740	140,924	3,100	10,733	2,125	..	15,958
South Malabar.																
Reserved Forests—																
Teak	6,035	7,499	..	..	13,534	..	..	..	..	..	..	..	..	..	..	..
Rosewood	508	1,502	..	..	2,010	..	..	..	..	..	..	..	..	..	..	..
Vengai	179	60	..	..	239	..	..	..	..	..	..	..	..	..	..	..
Ironwood	18,935	2,320	..	..	21,255	..	..	..	..	..	..	..	..	..	..	..
Hopea	..	132	..	..	132	..	..	..	..	..	..	..	..	..	..	..
Terminalia tomentosa	11,368	2,778	..	..	14,146	..	..	..	..	..	..	..	..	..	..	..
Miscellaneous	24,147	23,222	..	..	47,369	..	..	..	..	..	..	..	..	..	..	..
Total ..	61,172	37,513	..	..	98,685	648	28,022	..	..	28,670	127,355	39,837	92,864	..	..	132,701
Reserved lands—																
Teak	32,780	4,489	..	..	37,269	..	..	..	..	..	..	..	..	..	..	..
Rosewood	..	71	..	..	71	..	..	..	..	..	..	..	..	..	..	..
Vengai	87	..	..	..	87	..	..	..	..	..	..	..	..	..	..	..
Ironwood	2,047	8,512	..	..	10,559	..	..	..	..	..	..	..	..	..	..	..
Terminalia tomentosa	..	1,108	..	..	1,108	..	..	..	..	..	..	..	..	..	..	..
Miscellaneous	245	5,063	..	..	5,308	..	..	..	..	..	..	..	..	..	..	..
Total ..	35,159	19,243	..	..	54,402	..	160	..	..	160	54,562	1,300	7,000	10	..	8,310
Unreserved lands—																
Teak	74	..	..	..	74	..	..	..	..	..	..	..	..	..	..	..
Ironwood	94	..	..	..	94	..	..	..	..	..	..	..	..	..	..	..
Miscellaneous	..	30	..	..	30	..	..	..	..	..	..	..	..	..	..	..
Total ..	168	30	..	..	198	..	..	..	..	..	198	..	..	..	..	..
Grand Total ..	96,499	56,786	..	..	153,285	648	28,182	..	..	28,830	182,115	41,137	99,864	10	..	141,011

* The Collector has not given the figures separately for Reserved forests, Reserved lands, &c.

Outturn (in cubic feet, solid) of Timber and Fuel during the year 1899-1900, and Agency of Exploitation—*cont.*

District.	Timber.					Fuel.					Total.	Bamboos.				
	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Outturn.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
SOUTHERN CIRCLE—*cont.*	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	NO.	NO.	NO.	NO	NO.
The Nilgiris.																
* Reserved forests—																
Sandalwood	140	..	..	..	140	..	..	..	..	..	..	..	..	..	..	..
Miscellaneous	28,333	5,442	215	462	34,452	..	..	..	..	..	..	..	..	..	..	..
Total ..	28,473	5,442	215	462	34,592	381,380	20,879	3,820	64	406,143	440,735	..	309,082	2,540	800	312,422
North Coimbatore.																
Reserved forests—																
Teak	640	..	..	..	640	..	..	..	..	..	..	..	..	..	..	..
Vengai	2,572	..	..	..	2,572	..	..	..	..	..	..	..	..	..	..	..
Sandalwood	2,481	..	..	..	2,481	..	..	..	..	..	..	..	..	..	..	..
Terminalia tomentosa	37	..	..	..	37	..	..	..	..	..	..	..	..	..	..	..
Miscellaneous	763	30,295	529	..	31,687	..	..	..	..	..	..	..	..	..	..	..
Total ..	6,493	30,395	529	..	37,417	2,088	264,999	..	..	267,087	304,504	246,360	1,563,484	3,040	..	1,812,884
Unreserved lands—																
Sandalwood	17	..	..	..	17	..	..	..	..	..	..	..	..	..	..	..
Miscellaneous	1,019	..	..	..	1,019	..	..	..	..	..	..	..	..	..	..	..
Total ..	1,036	..	..	..	1,036	836	..	..	..	836	1,872	7,200	..	..	..	7,200
Grand total ..	7,529	30,395	529	..	38,453	2,924	264,999	..	..	267,923	306,376	253,560	1,563,484	3,040	..	1,820,084
South Coimbatore.																
Reserved forests—																
Teak	10,292	1	..	..	10,293	..	..	..	..	..	..	..	..	..	..	..
Rosewood	965	237	..	..	1,202	..	..	..	..	..	..	..	..	..	..	..
Vengai	215	258	..	..	473	..	..	..	..	..	..	..	..	..	..	..
Ironwood	272	..	..	..	272	..	..	..	..	..	..	..	..	..	..	..
Terminalia tomentosa	21,927	..	..	..	21,927	..	..	..	..	..	..	..	..	..	..	..
Miscellaneous	20,526	10,777	..	..	31,303	..	..	..	..	..	..	..	..	..	..	..
Total ..	54,197	11,273	..	..	65,470	268,795	816,908	..	..	1,085,703	1,151,173	..	1,155,940	..	..	1,155,940
Unreserved lands—																
Miscellaneous	200	4,518	..	..	4,718	108	41,538	2,160	..	43,806	48,524	..	4,140	..	..	4,140
Grand total ..	54,397	15,791	..	..	70,188	268,903	858,446	2,160	..	1,129,509	1,199,697	..	1,160,080	..	..	1,160,080

* Figures for the several forests and species have not been given by the Collector.

Outturn (in cubic feet, solid) of Timber and Fuel during the year 1899–1900, and Agency of Exploitation—*cont.*

District.	Timber.					Fuel.					Total.	Bamboos.				
	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Outturn.	Government.	Purchasers.	Free-grantees.	Right-holders	Total.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
SOUTHERN CIRCLE—*cont.*	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	NO.	NO.	NO.	NO.	NO.
Madura.																
Reserved forests—																
Teak	34	..	..	..	34	..	..	..	..	..	..	..	..	..	..	..
Vengai	70	152	..	..	222	..	..	..	..	..	..	..	..	..	..	..
Miscellaneous	691	17,510	380	..	18,581	..	..	..	..	..	..	..	..	..	..	..
Total ..	795	17,662	380	..	18,837	12,975	326,930	..	..	339,905	358,742	..	105,866	..	..	105,866
Unreserved lands—																
Teak	..	32	..	..	32	..	..	..	..	..	..	..	..	..	..	..
Rosewood	..	44	..	..	44	..	..	..	..	..	..	..	..	..	..	..
Vengai	..	38	..	..	38	..	..	..	..	..	..	..	..	..	..	..
Miscellaneous	..	178,355	..	..	178,355	..	..	..	..	..	..	..	..	..	..	..
Total ..	..	178,469	..	..	178,469	..	913	..	..	913	179,382	..	..	..	..	..
Grand Total ..	795	196,131	380	..	197,306	12,975	327,843	..	..	340,818	538,124	..	105,866	..	..	105,866
Tinnevelly.																
Reserved forests—																
Teak	..	7	..	..	7	..	..	..	..	..	..	..	..	..	..	..
Vengai	..	306	..	..	306	..	..	..	..	..	..	..	..	..	..	..
Hopea	4,918	300	..	..	5,218	..	..	..	..	..	..	..	..	..	..	..
Miscellaneous	103	43,257	..	..	43,360	..	..	..	..	..	..	..	..	..	..	..
Total ..	5,021	43,870	..	..	48,891	16,102	1,790,638	..	..	1,806,740	1,855,631	..	14,833	..	..	14,833
Unreserved lands—																
Miscellaneous	..	..	80	..	80	11,279	446,445	..	..	457,724	457,804	..	342	..	..	342
Grand total ..	5,021	43,870	80	..	48,971	27,381	2,237,083	..	..	2,264,464	2,313,435	..	15,175	..	..	15,175

Abstract.

NORTHERN CIRCLE.																
Reserved forests—																
Teak	647	110	..	..	757	..	..	..	..	..	..	..	..	..	..	..
Vengai	2,563	..	..	..	2,563	..	..	..	..	..	..	..	..	..	..	..
Redwood	..	120	..	..	120	..	..	..	..	..	..	..	..	..	..	..
Sal	8,696	..	..	..	8,696	..	..	..	..	..	..	..	..	..	..	..
Ironwood	3,903	..	..	..	3,903	..	..	..	..	..	..	..	..	..	..	..
Terminalia tomentosa	1,897	962	..	..	2,859	..	..	..	..	..	..	..	..	..	..	..
Miscellaneous	41,159	456,702	11,527	1,311	510,699	..	..	..	..	..	..	..	..	..	..	..
Total ..	58,865	457,894	11,527	1,311	529,597	135,248	1,803,044	848	257,510	2,196,650	2,726,247	4,940	10,649,282	77,600	20,489	10,752,311

Outturn (in cubic feet, solid) of Timber and fuel during the year 1899–1900, and Agency of Exploitation—*cont.*

Abstract—cont.

District.	Timber.					Fuel.					Total.	Bamboos.				
	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Outturn.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
NORTHERN CIRCLE—*cont.*	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	NO.	NO.	NO	NO.	NO.
Reserved lands—																
Teak	1,110	..	..	..	1,110	..	..	..	..	..	..	..	..	..	..	..
Sal	..	402	..	..	402	..	..	..	..	..	..	..	..	..	..	..
Ironwood	..	..	60	..	60	..	..	..	..	..	..	..	..	..	..	..
Sandalwood	16	..	..	..	16	..	..	..	..	..	..	..	..	..	..	..
Terminalia tomentosa	..	..	20	..	20	..	..	..	..	..	..	..	..	..	..	..
Miscellaneous	22,171	69,420	3,740	..	95,331	..	..	..	..	..	..	..	..	..	..	..
Total ..	23,297	69,822	3,820	..	96,939	148,462	349,744	..	..	498,206	595,145	306	564,066	23,370	..	587,742
Unreserved lands—																
Teak	34	212,583	..	..	212,617	..	..	..	..	..	..	..	..	..	..	..
Rosewood	3	..	..	..	3	..	..	..	..	..	..	..	..	..	..	..
Vengai	48	6,875	..	..	6,923	..	..	..	..	..	..	..	..	..	..	..
Sal	5,700	12,445	..	..	18,145	..	..	..	..	..	..	..	..	..	..	..
Ironwood	30	..	333	..	363	..	..	..	..	..	..	..	..	..	..	..
Terminalia tomentosa ..	342	65,171	20	..	65,533	..	..	..	..	..	..	..	..	..	..	..
Miscellaneous	79,852	488,726	16,482	..	585,060	..	..	..	..	..	..	..	..	..	..	..
Total ..	86,009	785,800	16,835	..	888,644	6,472	546,186	200	..	552,858	1,441,502	..	4,060,340	15,470	..	4,075,810
Grand Total ..	168,171	1,313,516	32,182	1,311	1,515,180	290,182	2,698,974	1,048	257,510	3,247,714	4,762,894	5,246	15,273,683	116,440	20,489	15,415,863
CENTRAL CIRCLE.																
Reserved forests—																
Teak	190	..	..	..	190	..	..	..	..	..	..	..	..	..	..	..
Redwood	43,623	..	..	..	43,623	..	..	..	..	..	..	..	..	..	..	..
Sandalwood	615	..	..	..	615	..	..	..	..	..	..	..	..	..	..	..
Miscellaneous	13,733	297,056	10,110	..	320,899	..	..	..	..	..	..	..	..	..	..	..
Total ..	58,161	297,056	10,110	..	365,327	2,174,324	1,267,187	400	..	3,441,911	3,807,238	80,967	8,579,155	41,800	..	8,701,922
Reserved lands—																
Miscellaneous	..	711	..	..	711	..	..	..	..	..	..	..	..	..	..	..
Total ..	..	711	..	..	711	500	17,177	..	..	17,677	18,388	..	8,225	..	..	8,225
Unreserved lands—																
Miscellaneous	..	218,792	11,021	..	229,813	..	..	..	..	..	..	..	..	..	..	..
Total ..	..	218,792	11,021	..	229,813	31,957	2,474,652	..	..	2,506,609	2,736,422	..	27,944	560	..	28,504
Grand Total ..	58,161	516,559	21,131	..	595,851	2,206,781	3,759,016	400	..	5,966,197	6,562,048	80,967	8,615,324	42,360	..	8,738,651

Outturn (in cubic feet, solid) of Timber and Fuel during the year 1899–1900, and Agency of Exploitation—*cont.*

District.	Timber.					Fuel.				Total.		Bamboos.				
	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Outturn.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
						Abstract—cont.										
SOUTHERN CIRCLE.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	NO.	NO.	NO.	NO.	NO.
Reserved forests—																
Teak	108,796	18,950	..	..	127,746	..	..	..	..	..	..	..	..	..	..	..
Rosewood	3,165	2,047	..	..	5,212	..	..	..	..	..	..	..	..	..	..	..
Vengai	13,135	1,306	..	..	14,441	..	..	..	..	..	..	..	..	..	..	..
Ironwood	19,247	2,320	..	..	21,567	..	..	..	..	..	..	..	..	..	..	..
Sandalwood	2,621	..	..	..	2,621	..	..	..	..	..	..	..	..	..	..	..
Hopea	4,918	1,131	..	..	6,049	..	..	..	..	..	..	..	..	..	..	..
Terminalia tomentosa	33,377	3,493	..	..	36,870	..	..	..	..	..	..	..	..	..	..	..
Miscellaneous	90,660	134,781	4,644	462	230,547	..	..	..	..	..	..	..	..	..	..	..
Total ..	275,919	164,028	4,644	462	445,053	693,999	3,375,737	5,580	64	4,075,380	4,520,433	290,212	3,324,260	7,705	800	3,622,977
Reserved lands—																
Teak	32,825	4,890	..	..	37,715	..	..	..	..	..	..	..	..	..	..	..
Rosewood	15	71	..	..	86	..	..	..	..	..	..	..	..	..	..	..
Vengai	286	..	..	..	286	..	..	..	..	..	..	..	..	..	..	..
Ironwood	10,897	8,512	..	..	19,409	..	..	..	..	..	..	..	..	..	..	..
Hopea	218	613	..	..	831	..	..	..	..	..	..	..	..	..	..	..
Terminalia tomentosa	5,296	2,506	..	..	7,802	..	..	..	..	..	..	..	..	..	..	..
Miscellaneous	14,132	5,168	..	..	19,300	..	..	..	..	..	..	..	..	..	..	..
Total ..	63,669	21,760	..	..	85,429	7,199	159,062	..	..	166,261	251,690	1,300	38,742	10	..	40,052
Unreserved lands—																
Teak	74	244	..	..	318	..	..	..	..	..	..	..	..	..	..	..
Rosewood	..	119	..	..	119	..	..	..	..	..	..	..	..	..	..	..
Vengai	..	38	..	..	38	..	..	..	..	..	..	..	..	..	..	..
Ironwood	94	310	..	..	404	..	..	..	..	..	..	..	..	..	..	..
Sandalwood	17	..	..	..	17	..	..	..	..	..	..	..	..	..	..	..
Hopea	..	135	343	..	478	..	..	..	..	..	..	..	..	..	..	..
Terminalia tomentosa	..	413	..	..	413	..	..	..	..	..	..	..	..	..	..	..
Miscellaneous	1,219	184,936	80	..	186,235	..	..	..	..	..	..	..	..	..	..	..
Total ..	1,404	186,195	423	..	188,022	12,223	1,086,941	2,160	..	1,101,324	1,289,346	7,200	4,482	..	..	11,682
Grand total ..	340,992	371,983	5,067	462	718,504	713,421	4,621,740	7,740	64	5,342,965	6,061,469	298,712	3,367,484	7,715	800	3,674,711

Outturn (in cubic feet, solid) of Timber and Fuel during the year 1899-1900, and Agency of Exploitation—*cont.*

District.	Timber.					Fuel.					Total.	Bamboos.				
	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Outturn.	Government.	Purchasers.	Free-grantees.	Right holders.	Total.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
						Circle Abstract.										
NORTHERN CIRCLE.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	NO.	NO.	NO.	NO.	NO.
Reserved forests, reserved lands and unreserved lands—																
Teak	1,791	212,693	..	..	214,484	..	..	..	..	..	..	..	..	..	..	..
Rosewood	3	..	..	..	3	..	..	..	..	..	..	..	..	..	..	..
Vengai	2,611	6,875	..	..	9,486	..	..	..	..	..	..	..	..	..	..	..
Redwood	..	120	..	..	120	..	..	..	..	..	..	..	..	..	..	..
Sal	14,396	12,847	..	..	27,243	..	..	..	..	..	..	..	..	..	..	..
Ironwood	3,933	..	393	..	4,326	..	..	..	..	..	..	..	..	..	..	..
Sandalwood	16	..	..	..	16	..	..	..	..	..	..	..	..	..	..	..
Terminalia tomentosa ..	2,239	66,133	40	..	68,412	..	..	..	..	..	..	..	..	..	..	..
Miscellaneous	143,182	1,014,848	31,749	1,311	1,191,090	..	..	..	..	..	..	..	..	..	..	..
Total ..	168,171	1,313,516	32,182	1,311	1,515,180	290,182	2,698,974	1,048	257,510	3,247,714	4,762,894	5,246	15,273,688	116,440	20,489	15,415,863
CENTRAL CIRCLE.																
Reserved forests, reserved lands and unreserved lands—																
Teak	190	..	..	..	190	..	..	..	..	..	..	..	..	..	..	..
Redwood	43,623	..	..	..	43,623	..	..	..	..	..	..	..	..	..	..	..
Sandalwood	615	..	..	..	615	..	..	..	..	..	..	..	..	..	..	..
Miscellaneous	13,733	516,559	21,131	..	551,423	..	..	..	..	..	..	..	..	..	..	..
Total ..	58,161	516,559	21,131	..	595,851	2,206,781	3,759,016	400	..	5,966,197	6,562,048	80,967	8,615,324	42,360	..	8,738,651
SOUTHERN CIRCLE.																
Reserved forests, reserved lands and unreserved lands—																
Teak	141,695	24,084	..	..	165,779	..	..	..	..	..	..	..	..	..	..	..
Rosewood	3,180	2,237	..	..	5,417	..	..	..	..	..	..	..	..	..	..	..
Vengai	13,421	1,344	..	..	14,765	..	..	..	..	..	..	..	..	..	..	..
Ironwood	30,238	11,142	..	..	41,380	..	..	..	..	..	..	..	..	..	..	..
Sandalwood	2,638	..	..	..	2,638	..	..	..	..	..	..	..	..	..	..	..
Hopea	5,136	1,879	343	..	7,358	..	..	..	..	..	..	..	..	..	..	..
Terminalia tomentosa ..	38,673	6,412	..	..	45,085	..	..	..	..	..	..	..	..	..	..	..
Miscellaneous	106,011	324,885	4,724	462	436,082	..	..	..	..	..	..	..	..	..	..	..
Total ..	340,992	371,983	5,067	462	718,504	713,421	4,621,740	7,740	64	5,342,965	6,061,469	298,712	3,367,484	7,715	800	3,674,711

Outturn (in cubic feet, solid) of Timber and Fuel during the year 1899–1900, and Agency of Exploitation—*cont.*

District.	Timber.					Fuel.					Total.	Bamboos.				
	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Outturn.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
						Presidency Abstract.										
	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	NO.	NO.	NO.	NO.	NO.
Reserved forests—																
Teak	109,633	19,060	..	..	128,693	..	..	..	..	..	..	..	..	..	..	..
Rosewood	3,165	2,047	..	..	5,212	..	..	..	..	..	..	..	..	..	..	..
Vengai	15,698	1,306	..	..	17,004	..	..	..	..	..	..	..	..	..	..	..
Redwood	43,623	120	..	..	43,743	..	..	..	..	..	..	..	..	..	..	..
Sal	8,696	..	..	..	8,696	..	..	..	..	..	..	..	..	..	..	..
Ironwood	23,150	2,320	..	..	25,470	..	..	..	..	..	..	..	..	..	..	..
Sandalwood	3,236	..	..	..	3,236	..	..	..	..	..	..	..	..	..	..	..
Hopea	4,918	1,131	..	..	6,049	..	..	..	..	..	..	..	..	..	..	..
Terminalia tomentosa	35,274	4,455	..	..	39,729	..	..	..	..	..	..	..	..	..	..	..
Miscellaneous	145,552	888,539	26,281	1,773	1,062,145	..	..	..	..	..	..	..	..	..	..	..
Total ..	392,945	918,978	26,281	1,773	1,339,977	3,003,571	6,445,968	6,828	257,574	9,713,941	11,053,918	376,119	22,552,697	127,105	21,289	23,077,210
Reserved lands—																
Teak	33,935	4,890	..	..	38,825	..	..	..	..	..	..	..	..	..	..	..
Rosewood	15	71	..	..	86	..	..	..	..	..	..	..	..	..	..	..
Vengai	286	..	..	..	286	..	..	..	..	..	..	..	..	..	..	..
Sal	..	402	..	..	402	..	..	..	..	..	..	..	..	..	..	..
Ironwood	10,897	8,512	60	..	19,469	..	..	..	..	..	..	..	..	..	..	..
Sandalwood	16	..	..	..	16	..	..	..	..	..	..	..	..	..	..	..
Hopea	218	613	..	..	831	..	..	..	..	..	..	..	..	..	..	..
Terminalia tomentosa	5,296	2,506	20	..	7,822	..	..	..	..	..	..	..	..	..	..	..
Miscellaneous	36,303	75,299	3,740	..	115,342	..	..	..	..	..	..	..	..	..	..	..
Total ..	86,966	92,293	3,820	..	183,079	156,161	525.983	..	..	682,144	865,223	1,606	611,033	23,380	..	636,019
Unreserved lands—																
Teak	108	212,827	..	..	212,935	..	..	..	..	..	..	..	..	..	..	..
Rosewood	3	119	..	..	122	..	..	..	..	..	..	..	..	..	..	..
Vengai	48	6,913	..	..	6,961	..	..	..	..	..	..	..	..	..	..	..
Sal	5,700	12,445	..	..	18,145	..	..	..	..	..	..	..	..	..	..	..
Ironwood	124	310	333	..	767	..	..	..	..	..	..	..	..	..	..	..
Sandalwood	17	..	..	..	17	..	..	..	..	..	..	..	..	..	..	..
Hopea	..	135	343	..	478	..	..	..	..	..	..	..	..	..	..	..
Terminalia tomentosa	342	65,584	20	..	65,946	..	..	..	..	..	..	..	..	..	..	..
Miscellaneous	81,971	892,454	27,583	..	1,001,108	..	..	..	..	..	..	..	..	..	..	..
Total ..	87,413	1,190,787	28,279	..	1,306,479	50,652	4,107,779	2,360	..	4,160,791	5,467,270	7,200	4,092,766	16,030	..	4,115,996

Outturn (in cubic feet, solid) of Timber and Fuel during the year 1899–1900, and Agency of Exploitation—*cont.*

District.	Timber.					Fuel.					Total.	Bamboos.				
	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Outturn.	Government.	Purchasers.	Free-grantees.	Right-holders	Total.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Presidency Abstract																
	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	NO.	NO.	NO.	NO.	NO.
Reserved forests, reserved lands and unreserved lands—																
Tectona grandis (Teak) ..	143,676	236,777	..	..	380,453	..	..	..	..	..	..	..	..	..	..	..
Dalbergia latifolia (Rosewood).	3,183	2,237	..	..	5,420	..	..	..	..	..	..	..	..	..	..	..
Pterocarpus marsupium (Vengai)	16,032	8,219	..	..	24,251	..	..	..	..	..	..	..	..	..	..	..
Pterocarpus santalinus (Redwood)	43,623	120	..	..	43,743	..	..	..	..	..	..	..	..	..	..	..
Shorea robusta (Sâl)	14,396	12,847	..	..	27,243	..	..	..	..	..	..	..	..	..	..	..
Xylia dolabriformis (Ironwood).	34,171	11,142	393	..	45,706	..	..	..	..	..	..	..	..	..	..	..
Santalum album (Sandalwood).	3,269	..	..	..	3,269	..	..	..	..	..	..	..	..	..	..	..
Hopea parviflora	5,136	1,879	343	..	7,358	..	..	..	..	..	..	..	..	..	..	..
Terminalia tomentosa	40,912	72,545	40	..	113,497	..	..	..	..	..	..	..	..	..	..	..
Miscellaneous	262,926	1,856,292	57,604	1,773	2,178,595	..	.	..	..	..	..	..	..	..	..	..
Presidency total ..	567,324	2,202,058	58,380	1,773	2,829,535	3,210,384	11,079,730	9,188	257,574	14,556,876	17,386,411	384,925	27,256,496	166,515	21,289	27,829,225

ANNUAL FORM No. 56.

Forest Department, Madras Presidency.

OUTTURN of Minor Forest Produce during the year 1899–1900.

Circle.	Description of produce.	Produce removed or utilized.									
		By Government Agency.		By purchasers.		By free grants.		By right-holders.		Total.	
		Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
1	2	3	4	5	6	7	8	9	10	11	12
			RS.		RS.		RS.		RS.		RS.
Northern Circle.	Grass and grazing	MDS. 672	32	..	1,79,051	..	..	..	700	..	1,79,783
	Stones, gravel, earth, &c.	..	..	C. L. 23,000	5,393	C. L. 1,100	225	..	..	..	5,618
	Tamarind, soapnuts, gallnuts	..	..	..	8,741	..	..	..	100	..	8,841
	Horns, honey, wax, &c.	..	..	..	818	..	..	..	..	..	818
	Tangedu, &c. barks	..	..	..	58,455	..	..	..	..	..	58,455
	Miscellaneous	MDS. 3,851	338	..	1,59,876	..	24	..	38,750	..	1,98,988
	Total	MDS. 4,523	370	..	4,12,334	..	249	..	39,550	..	4,52,503
Central Circle.	Grass and grazing	..	..	..	2,24,962	..	1,515	..	356	..	2,26,833
	Stones, gravel, earth, &c.	..	..	C. L. 34,167	3,584	C. L. 200	623	..	..	..	4,207
	Tamarind, soapnuts, gallnuts	MDS. 1,094	667	..	223	..	..	..	..	..	890
	Horns, honey, wax, nux vomica	,, 3,746	3,223	..	..	..	..	..	..	..	3,223
	Tangedu, &c. barks	..	..	..	33,801	..	..	..	..	..	33,801
	Mica	..	..	..	* 18,407	..	..	..	..	..	18,407
	Miscellaneous	MDS 10,842	2,068	..	1,38,698	..	578	..	..	..	1,41,344
	Total	MDS. 15,682	5,958	..	4,19,675	..	2,716	..	356	..	4,28,705
Southern Circle.	Grass and grazing	..	..	..	86,266	..	..	..	87	..	86,353
	Stones, gravel, earth, &c.	..	..	C. L. 20,415 C. FT. 7,432 TONS. 320	1,630	..	..	..	..	..	1,630
	Tamarind, soapnuts, gallnuts	MDS. 16,152	15,649	..	2,179	..	..	..	..	..	17,828
	Horns, honey, wax, &c.	,, 1,314	5,971	..	19	..	..	..	..	..	5,990
	Tangedu, &c. barks	,, 1,091	4,364	..	3,277	..	..	..	..	..	7,641
	Catechu	,, 1,414	10,812	..	..	..	..	..	..	..	10,812
	Miscellaneous	,, 3,172	6,241	..	82,003	..	98	..	68	..	88,410
	Total	MDS. 23,143	43,037	..	1,75,374	..	98	..	155	..	2,18,664
	Grand Total	MDS. 43,348	49,365	..	10,07,383	..	3,063	..	40,061	..	10,99,872

* Under mica there is an amount of Rs. 38,669 outstanding, being royalty due to the department, but awaiting the production of brokers' certificate.

Annual Form No. 57.

Forest Department, Madras Presidency.

Account of Timber cut or collected by Government Agency and brought to depots, sold locally, &c., or otherwise disposed of during the year 1899–1900.

Name of district.	Balance at commencement of the year in forests and sale depots.	Received during the year.	Total.	Disposed of during the year.	Balance in hand at the close of the year in forests and sale depots.
1	2	3	4	5	6
TIMBER (cubic feet).					
Northern Circle.					
Ganjám	6,107	121,649	127,756	89,740	38,016
Vizagapatam	..	472	472	369	103
Gódávari	1,738	4,360	6,098	1,784	4,314
Kistna	..	4,618	4,618	4,618	..
Kurnool	7,142	13,775	20,917	13,739	7,178
Bellary	20,393	23,297	43,690	30,661	13,029
Anantapur	..	..	..	..	..
Total ..	35,380	168,171	203,551	140,911	62,640
Central Circle.					
Cuddapah	94	54,143	54,237	14,049	40,188
Nellore	..	420	420	420	..
Chingleput	..	..	..	..	..
North Arcot	..	1,069	1,069	1,069	..
South Arcot	23	380	403	1	402
Salem ..	350	2,149	2,499	1,534	965
Trichinopoly	..	..	..	..	..
Tanjore	..	..	..	..	..
Total ..	467	58,161	58,628	17,073	41,555
Southern Circle.					
South Canara	53,137	32,259	85,396	15,508	69,888
Malabar (North)	101,168	116,019	217,187	39,253	177,934
Do. (South)	193,003	96,499	289,502	112,044	177,458
Nilgiris	9,218	28,473	37,691	6,311	31,380
Coimbatore (North)	1,868	7,529	9,397	8,151	1,246
Do. (South)	164,976	54,397	219,373	18,336	201,037
Madura	..	795	795	795	..
Tinnevelly	1,714	5,021	6,735	2,248	4,487
Total ..	525,084	340,992	866,076	202,646	663,430
Grand Total ..	560,931	567,324	1,128,255	360,630	767,625
FUEL (cubic feet).					
Northern Circle.					
Ganjám	..	660	660	660	..
Vizagapatam	..	27,936	27,936	27,936	..
Gódávari	..	..	..	..	..
Kistna	..	1,340	1,340	1,340	..
Kurnool	6,150	109,494	115,644	5,068	110,576
Bellary	84,400	150,752	235,152	195,426	39,726
Anantapur	..	..	..	..	..
Total ..	90,550	290,182	380,732	230,430	150,302
Central Circle.					
Cuddapah	3,080	15,159	18,239	13,614	4,625
Nellore	69,975	543,449	613,424	509,305	104,119
Chingleput	2,352	32,697	35,049	34,939	110
North Arcot	31,360	12,873	44,233	29,150	15,083
South Arcot	500	14,603	15,103	13,930	1,173
Salem	8,250	1,512,742	1,520,992	1,495,903	25,089
Trichinopoly	102,291	75,258	177,549	138,024	39,525
Tanjore	..	..	..	..	..
Total ..	217,808	2,206,781	2,424,589	2,234,865	189,724
Southern Circle.					
South Canara	2	17,810	17,812	8,460	9,352
Malabar (North)	..	1,400	1,400	930	470
Do. (South)	..	648	648	488	160
Nilgiris	346,220	381,380	727,600	301,835	425,765
Coimbatore (North)	..	2,924	2,924	2,924	..
Do. (South)	74,510	268,903	343,413	128,693	214,720
Madura	1,520	12,975	14,495	11,838	2,657
Tinnevelly	800	27,381	28,181	28,181	..
Total ..	423,052	713,421	1,136,473	483,349	653,124
Grand Total ..	731,410	3,210,384	3,941,794	2,948,644	993,150

Account of Timber cut or collected by Government Agency and brought to depots, sold locally, &c., or otherwise disposed of during the year 1899–1900—*cont.*

Name of district.	Balance at commencement of the year in forests and sale depots.	Received during the year.	Total.	Disposed of during the year.	Balance in hand at the close of the year in forests and sale depots.
1	2	3	4	5	6
MINOR FOREST PRODUCE (MAUNDS OF 25 LB.).					
Northern Circle.					
Ganjám	..	..	..	..	..
Vizagapatam	..	3,178	3,178	2,718	460
Gódávari	..	..	..	..	..
Kistna	175	14	189	185	4
Kurnool	42	..	42	..	42
Bellary	..	1,331	1,331	1,331	..
Anantapur	..	..	..	..	..
Total ..	217	4,523	4,740	4,234	506
Central Circle.					
Cuddapah	67	147	214	212	2
Nellore	2,181	8,208	10,389	7,261	3,128
Chingleput	30	3	33	33	..
North Arcot	..	127	127	127	..
South do.	..	986	986	986	..
Salem	..	6,205	6,205	5,793	412
Trichinopoly	25	..	25	..	25
Tanjore	..	6	6	..	6
Total ..	2,303	15,682	17,985	14,412	3,573
Southern Circle.					
South Canara	16	1,831	1,847	1,680	167
Malabar (North)	124	..	124	124	..
Do. (South)	137	191	328	169	159
Nilgiris	191	3,576	3,767	1,322	2,445
Coimbatore (North)	12,147	13,951	26,098	14,935	11,163
Do. (South)	99	3,343	3,442	3,380	62
Madura	..	49	49	49	..
Tinnevelly	..	202	202	202	..
Total ..	12,714	23,143	35,857	21,861	13,996
Grand Total ..	15,234	43,348	58,582	40,507	18,075
BAMBOOS (NUMBER).					
Northern Circle.					
Ganjám	..	..	..	..	..
Vizagapatam	..	..	..	..	..
Gódávari	..	..	..	..	..
Kistna	..	1,205	1,205	5	1,200
Kurnool	580	3,735	4,315	4,235	80
Bellary	1,699	306	2,005	1,212	793
Anantapur	..	..	..	..	..
Total ..	2,279	5,246	7,525	5,452	2,073
Central Circle.					
Cuddapah	..	8,400	8,400	8,400	..
Nellore	..	..	..	..	..
Chingleput	..	..	..	..	..
North Arcot	296	2,834	3,130	2,810	320
South do.	..	63,033	63,033	62,124	909
Salem	3	6,700	6,703	6,703	..
Trichinopoly	..	..	..	..	..
Tanjore	..	..	..	..	..
Total ..	299	80,967	81,266	80,037	1,229
Southern Circle.					
South Canara	..	915	915	619	296
Malabar (North)	..	3,100	3,100	1,100	2,000
Do. (South)	9,655	41,137	50,792	24,467	26,325
Nilgiris	..	..	..	..	..
Coimbatore (North)	57,695	253,560	311,255	294,715	16,540
Do. (South)	..	..	..	..	..
Madura	..	..	..	..	..
Tinnevelly	..	..	..	..	..
Total ..	67,350	298,712	366,062	320,901	45,161
Grand Total ..	69,928	384,925	454,853	406,390	48,463

Annual Form No. 72-A (Old Code).

Forest Department, Madras Presidency.

Timber and other Produce cut, collected and removed by Consumers or Purchasers during 1899–1900.

District.	Timber.	Firewood and charcoal.	Bamboos.	Money value of sales.											
				Timber.		Firewood and charcoal.		Bamboos.		Grazing and fodder grass.		Minor produce.		Total.	
				Amount of sales.	Amount actually realized during the year.	Amount of sales.	Amount actually realized during the year.	Amount of sales.	Amount actually realized during the year.	Amount of sales.	Amount actually realized during the year.	Amount of sales.	Amount actually realized during the year.	Amount of sales.	Amount actually realized during the year.
Northern Circle.	C. FEET.	C. FEET.	NO.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Ganjám	136,405	630,670	1,469,440	11,431	11,431	8,304	8,304	5,560	5,560	7,942	7,942	3,374	3,374	36,611	36,611
Vizagapatam	58,379	258,125	681,422	4,368	4,368	5,735	5,735	6,373	6,373	3,249	3,249	9,218	9,218	28,943	28,943
Gódávari	635,623	628,019	9,104,781	81,571	81,571	7,312	10,912	41,932	41,932	11,861	11,873	28,589	28,530	1,71,265	1,74,818
Kistna	175,300	435,952	197,660	11,707	11,709	11,913	12,599	1,842	1,842	75,207	75,207	21,973	18,554	1,22,642	1,19,911
Kurnool	230,569	325,989	3,719,975	23,267	23,270	9,705	9,706	16,468	16,468	39,218	39,220	44,032	32,773	1,32,690	1,21,437
Bellary	59,636	315,910	95,735	4,297	4,297	6,705	7,005	1,914	1,914	33,344	33,344	59,915	49,902	1,06,175	96,462
Anantapur	17,604	104,309	4,675	2,720	2,720	2,190	2,190	117	117	8,230	8,230	66,182	50,091	79,439	63,348
Total ..	1,313,516	2,698,974	15,273,688	1,39,361	1,39,366	51,864	56,451	74,206	74,206	1,79,051	1,79,065	2,33,283	1,92,442	6,77,765	6,41,580
Central Circle.															
Cuddapah	166,471	529,019	1,390,786	14,930	13,989	13,478	11,296	4,731	4,678	34,520	34,520	53,370	48,342	1,21,029	1,12,825
Nellore	61,393	106,030	2,072	8,012	8,012	16,229	9,995	93	93	37,237	37,237	43,501	43,451	1,05,072	98,788
Chingleput	75,607	186,003	38,560	6,498	6,498	12,217	12,419	81	81	13,477	13,477	7,814	9,842	40,087	42,317
North Arcot	53,056	228,064	55,175	10,975	7,974	34,200	32,356	31,806	28,095	31,119	31,119	33,735	33,317	1,41,835	1,32,861
South do.	24,737	256,942	773,580	3,044	3,044	17,579	15,873	1,884	1,884	39,529	39,529	13,114	20,993	75,150	81,323
Salem	100,650	214,632	6,199,719	15,638	16,472	14,164	9,757	39,668	39,668	52,757	52,757	31,006	47,451	1,53,233	1,66,105
Trichinopoly	25,133	1,768,086	153,164	2,337	2,337	31,770	28,089	2,161	2,162	15,286	14,720	8,706	12,639	60,260	59,947
Tanjore	9,512	470,240	2,268	605	605	9,842	9,388	236	336	1,037	1,037	3,467	4,531	15,187	15,897
Total ..	516,559	3,759,016	8,615,324	62,039	58,931	1,49,479	1,29,173	80,160	76,997	2,24,962	2,24,396	1,94,713	2,20,566	7,11,363	7,10,063
Southern Circle.															
South Canara	7,923	881,728	103,200	2,641	2,641	19,379	13,777	1,549	1,549	5,208	5,251	12,440	9,496	41,217	32,714
North Malabar	15,645	2,580	10,733	8,396	8,396	40	40	180	180	937	937	3,745	1,999	13,298	11,552
South do.	56,786	28,182	99,864	13,949	9,338	381	381	1,984	1,984	108	108	971	1,286	17,393	13,097
Nilgiris	5,442	20,879	309,082	1,113	1,113	2,560	2,560	3,349	3,349	7,977	7,977	900	900	15,899	15,899
North Coimbatore ..	30,395	264,999	1,563,484	3,178	3,178	12,649	12,649	4,920	4,920	46,142	46,137	6,166	5,606	73,055	72,490
South do.	15,791	858,446	1,160,080	5,923	5,923	10,929	12,127	4,379	4,379	6,967	6,967	6,925	6,656	35,123	36,052
Madura	196,131	327,843	105,866	14,737	14,737	13,451	13,307	3,710	3,710	13,439	13,439	35,052	25,791	80,389	70,984
Tinnevelly	43,870	2,237,083	15,175	4,638	4,314	46,119	43,902	176	311	5,488	5,488	22,909	20,410	79,330	74,425
Total ..	371,983	4,621,740	3,367,484	54,575	49,640	1,05,508	98,743	20,247	20,382	86,266	86,304	89,108	72,144	3,55,704	3,27,213
Grand Total ..	2,202,058	11,079,730	27,256,496	2,55,975	2,47,937	3,06,851	2,84,867	1,74,613	1,71,585	4,90,279	4,89,765	5,17,104	4,85,152	17,44,822	16,78,806
Add outstandings at the close of 1898–99 *revised as per* Form No. 61 ..														1,44,571	
Total ..														18,89,393	
Deduct amount realized as per Form No. 59 and written off (Rs. 14,149) as per Form No. 61 ..														16,92,955	
Balance outstanding on 30th June 1900 ..														1,96,438	

ANNUAL FORM No. 72-B (OLD CODE).

Forest Department, Madras Presidency.

TIMBER and other Produce Confiscated and Sold during the year 1899–1900.

District.	TIMBER.		FIREWOOD.		BAMBOOS.		Minor produce in value.	Total amount of sales.	Amount actually realized.
	Quantity in cubic feet.	Amount of sales.	Quantity in cubic feet.	Amount of sales.	Number.	Amount of sales.			
Northern Circle.		RS.		RS.		RS.	RS.	RS.	RS.
Ganjám	2,015	393	189	5	1,395	4	1	403	403
Vizagapatam ..	242	25	402	10	600	5	18	58	58
Gódávari	40,656	3,453	2,178	39	5,554	160	10	3,662	2,750
Kistna	866	54	514	11	1,067	5	6	76	76
Kurnool	8,095	948	500	50	4,786	11	48	1,057	1,063
Bellary	104	14	1,644	173	..	..	..	187	187
Anantapur	1	..	36	..	..	..	..	..	..
Total ..	51,979	4,887	5,463	288	13,402	185	83	5,443	4,537
Central Circle.									
Cuddapah	4,111	585	249	12	1,312	10	14	621	621
Nellore	4,500	216	1,250	80	..	..	..	296	296
Chingleput	161	25	22	2	..	..	5	32	32
North Arcot ..	231	60	192	13	1	..	17	90	90
South do. ..	814	102	1,909	64	128	2	33	201	201
Salem	1,235	186	205	7	2,193	65	3	261	261
Trichinopoly ..	8	2	2,674	138	316	3	28	171	171
Tanjore	25	2	1,240	94	..	..	1	97	97
Total ..	11,085	1,178	7,741	410	3,950	80	101	1,769	1,769
Southern Circle.									
South Canara ..	4,179	1,475	5,045	473	192	21	45	2,014	2,041
Malabar, North ..	..	..	..	..	..	..	1	1	1
Do. South ..	175	16	64	1	5	1	..	18	18
Nilgiris	4	14	2	..	8	..	..	14	14
Coimbatore, North ..	666	128	1,556	38	21,480	131	12	309	309
Do. South ..	2,603	231	264	12	1,825	10	18	271	271
Madura	1,261	125	866	38	..	..	8	171	171
Tinnevelly	107	59	15,110	651	8,671	99	23	832	816
Total ..	8,995	2,048	22,907	1,213	32,181	262	107	3,630	3,641
Grand Total ..	72,059	8,113	36,111	1,911	49,533	527	291	10,842	9,947
Add outstandings at the close of 1898–99 as revised (*vide* Form No. 61) ..								49	
Total ..								10,891	
Deduct amount realized as per Form No. 59 ..								9,947	
Balance outstanding on 30th June 1900 ..								944	

Annual Form No. 58.

Forest Department, Madras Presidency.

Abstract showing the Value of Timber and other Produce at sale depots for the year 1899–1900.

District.	Description of timber or produce.	On hand at commencement of the year.			On hand at close of the year.			Difference in value.	
		Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favour of the year.	Against the year.
	Northern Circle.			Rs.			Rs.	Rs.	Rs.
Ganjám ..	Sal	..	3,917	1,469	..	10,728	4,023	2,554	..
	Miscellaneous ..	..	2,190	548	..	27,288	6,822	6,274	..
	Total, timber ..	..	6,107	2,017	..	38,016	10,845	8,828	..
Vizagapatam.	Miscellaneous timber ..	..	..	..	..	103	26	26	..
	Minor produce ..	..	..	..	Mds. 460	..	3	3	..
Gódávari ..	Teak	..	.	..	..	34	8	8	..
	Rosewood ..	..	..	..	..	3	1	1	..
	Miscellaneous ..	..	1,738	3,000	..	4,277	2,859	..	141
	Total, timber ..	..	1,738	3,000	..	4,314	2,868	9	141
Kistna ..	Bamboos ..	..	..	..	1,200	..	23	23	..
	Minor produce ..	Mds. 175	..	350	Mds. 4	..	8	..	342
Kurnool ..	Teak	..	827	827	..	398	398	..	429
	Miscellaneous ..	..	6,315	3,348	..	6,780	3,390	42	..
	Total, timber ..	..	7,142	4,175	..	7,178	3,788	42	429
	Fuel	..	6,150	338	..	110,576	5,528	5,190	..
	Bamboos ..	580	..	11	80	..	2	..	9
	Minor produce ..	Mds. 42	..	42	42	..	42	..	..
Bellary ..	Teak	..	2,472	3,125	..	427	22	..	3,103
	Miscellaneous ..	..	17,921	2,055	..	12,602	504	..	1,551
	Total, timber ..	..	20,393	5,180	..	13,029	526	..	4,654
	Fuel	..	84,400	11,253	..	39,726	5,904	..	5,349
	Bamboos ..	1,699		98	793	..	45	..	53
Anantapur.	....	..	..	..	..	..	..	..	..
	Central Circle.								
Cuddapah ..	Redwood ..	..	..	..	..	40,155	13,050	13,050	..
	Miscellaneous ..	..	94	25	..	33	30	5	..
	Total, timber ..	. .	94	25	..	40,188	13,080	13,055	..
	Fuel	..	3,080	159	..	4,625	236	77	..
	Minor produce ..	Mds. 67	..	129	Mds. 2	..	11	..	118
Nellore ..	Fuel	..	69,975	12,110	..	104,119	13,822	1,712	..
	Minor produce ..	Mds. 2,181	..	1,207	Mds. 3,128	..	2,425	1,218	..
Chingleput.	Fuel	..	2,352	235	..	110	11	..	224
	Minor produce ..	Mds. 30	..	45	..	..	..	..	45
North Arcot.	Fuel	..	31,360	1,677	..	15,083	927	..	750
	Bamboos ..	296	..	9	320	..	19	10	..
South Arcot.	Teak	..	..	..	..	190	95	95	..
	Sandalwood ..	..	..	..	..	70	300	300	..
	Miscellaneous ..	..	23	6	..	142	18	12	..
	Total, timber ..	..	23	6	..	402	413	407	..
	Fuel	..	500	12	..	1,173	73	61	..
	Bamboos ..	..	..	..	909	..	14	14	..
Salem ..	Sandalwood ..	..	350	3,500	..	643	6,430	2,930	..
	Miscellaneous ..	..	..	..	..	322	322	322	..
	Total, timber ..	..	350	3,500	..	965	6,752	3,252	..

Abstract showing the Value of Timber and other Produce at sale depots, &c.—*cont.*

District.	Description of timber or produce.	On hand at commencement of the year.			On hand at close of the year.			Difference in value.	
		Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favour of the year.	Against the year.
	Central Circle—cont.			RS.			RS.	RS.	RS.
Salem—*cont.*	Fuel	..	8,250	245	..	25,089	392	147	..
	Bamboos ..	3	..	1	..	..	..	..	1
	Minor produce ..	..	..	..	MDS. 412	..	28	28	..
Trichinopoly	Fuel	..	102,291	6,966	..	39,525	4,246	..	2,720
	Minor produce ..	MDS. 25	..	37	25	..	37	..	..
Tanjore ..	Minor produce ..	..	..	..	MDS. 6	..	5	5	..
	Southern Circle.								
South Canara.	Teak	..	18	18	..	..	..	..	18
	Rosewood ..	..	889	1,710	..	101	177	..	1,533
	Miscellaneous ..	..	52,230	36,540	..	69,787	49,937	13,397	..
	Total, timber ..	..	53,137	38,268	..	69,888	50,114	13,397	1,551
	Fuel	..	2	..	..	9,352	1,519	1,519	..
	Bamboos ..	..	..	..	296	..	44	44	..
	Minor produce ..	MDS. 16	..	16	MDS. 167	..	167	151	..
North Malabar.	Teak	..	39,786	24,011	..	61,419	30,709	6,698	..
	Rosewood ..	..	1,839	690	..	1,294	647	..	43
	Vengai	..	5,955	1,861	..	12,930	6,465	4,604	..
	Miscellaneous ..	..	53,588	15,624	..	102,291	26,843	11,219	..
	Total, timber ..	..	101,168	42,186	..	177,934	64,664	22,521	43
	Fuel	..	..	..	..	470	60	60	..
	Bamboos ..	..	..	..	2,000	..	150	150	..
	Minor produce ..	MDS. 124	..	3,724	..	..	..	..	3,724
South Malabar.	Teak	..	22,269			15,668			
	Rosewood ..	..	1,929			1,314			
	Vengai	..	659			179			
	Ironwood ..	..	..	65,000	..	38,358	60,597	..	4,403
	Terminalia tomentosa ..	..	..			75,343			
	Miscellaneous ..	..	168,146			46,596			
	Total, timber ..	..	193,003	65,000	..	177,458	60,597	..	4,403
	Fuel	..	..	..	..	160	18	18	..
	Bamboos ..	9,655	..	580	26,325	..	1,580	1,000	..
	Minor produce ..	MDS. 137	..	210	MDS. 159	..	490	280	..
Nilgiris ..	Teak	..	150	200	..	..	..	..	200
	Rosewood ..	..	3	3	..	..	..	..	3
	Vengai	..	5	3	..	..	..	..	3
	Miscellaneous ..	..	9,060	810	..	31,380	2,791	1,981	..
	Total, timber ..	..	9,218	1,016	..	31,380	2,791	1,981	206
	Fuel	..	346,220	2,971	..	425,765	3,367	396	..
	Minor produce ..	MDS. 191	..	191	MDS. 2,445	..	2,445	2,254	..
North Coimbatore.	Teak	..	..	..	..	473	800	800	..
	Vengai	..	298	270	..	423	450	180	..
	Sandalwood ..	..	787	7,022	..	232	446	..	6,576
	Miscellaneous ..	..	783	563	..	118	100	..	463
	Total, timber ..	..	1,868	7,855	..	1,246	1,796	980	7,039
	Bamboos ..	57,695	..	1,010	16,540	..	400	..	610
	Minor produce ..	MDS. 12,147	..	13,420	MDS. 11,163	..	12,776	..	644

Abstract showing the Value of Timber and other Produce at sale depots, &c.—*cont.*

District.	Description of timber or produce.	On hand at commencement of the year.			On hand at close of the year.			Difference in value.	
		Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favour of the year.	Against the year.
	Southern Circle—cont.			Rs.			Rs.	Rs.	Rs.
South Coimbatore.	Teak	..	38,882	77,764	..	476	952	..	76,812
	Rosewood ..	..	2,315	2,315	..	176	352	..	1,963
	Vengai	..	351	272	..	..	..	..	272
	Ironwood ..	..	1,770	900	..	..	..	..	900
	Terminalia tomentosa	..	..	..	..	5,628	4,159	4,159	..
	Miscellaneous ..	..	121,658	85,120	..	194,757	1,35,360	50,240	..
	Total, timber ..	..	164,976	1,66,371	..	201,037	1,40,823	54,399	79,947
	Fuel	..	74,510	1,424	..	214,720	2,963	1,539	..
	Minor produce ..	MDS. 99	..	99	MDS. 62	..	62	..	37
Madura ..	Fuel	..	1,520	281	..	2,657	418	137	..
Tinnevelly ..	*Hopea*	..	..	..	..	4,445	6,665	6,665	..
	Miscellaneous ..	..	1,714	2,261	..	42	42	..	2,219
	Total, timber ..	..	1,714	2,261	..	4,487	6,707	6,665	2,219
	Fuel	..	800	64	..	..	..	..	64

ABSTRACT.

Northern Circle.			Rs.			Rs.	Rs.	Rs.
Timber	..	35,380	14,372	..	62,640	18,053	3,681	..
Fuel	..	90,550	11,591	..	150 302	11,432	..	159
Bamboos ..	2,279	..	109	2,073	..	70	..	39
Minor produce ..	MDS. 217	..	392	MDS. 506	..	53	..	339
Central Circle.								
Timber	..	467	3,531	..	41,555	20,245	16,714	..
Fuel	..	217,808	21,404	..	189,724	19,707	..	1,697
Bamboos ..	299	..	10	1,229	..	33	23	..
Minor produce ..	MDS. 2,303	..	1,418	MDS. 3,573	..	2,506	1,088	..
Southern Circle.								
Timber	..	525,084	3,22,957	..	663,430	3,27,492	4,535	..
Fuel	..	423,052	4,740	..	653,124	8,345	3,605	..
Bamboos ..	67,350	..	1,590	45,161	..	2,174	584	..
Minor produce ..	MDS. 12,714	..	17,660	MDS. 13,996	..	15,940	..	1,720

GRAND TOTAL.

			Rs.			Rs.	Rs.	Rs.
Timber	..	560,931	3,40,860	..	767,625	3,65,790	24,930	..
Fuel	..	731,410	37,735	..	993,150	39,484	1,749	..
Bamboos ..	69,928	..	1,709	48,463	..	2,277	568	..
Minor produce ..	MDS. 15,234	..	19,470	MDS. 18,075	..	18,499	..	971

ANNUAL FORM No. 59.

SUMMARY of Revenue of the different Districts for the Forest year 1899-1900.

Budget heads.	Northern Circle.									Central Circle.				
	Direction.	Ganjám.	Vizagapatam.	Godávari.	Kistna.	Kurnool.	Bellary.	Anantapur.	Total.	Direction.	Nellore.	Cuddapah.	Chingleput.	North Arcot.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Receipts.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
I. Timber and other produce removed from the forests by Government Agency—														
(*a*) Timber	..	7,072	11	72	364	9,908	2,386	..	19,813	..	..	2,251	..	146
(*b*) Firewood and charcoal	..	18	1,093	..	72	432	21,346	..	22,961	..	57,614	562	3,370	2,104
(*c*) Bamboos	..	..	..	..	..	78	58	..	136	..	..	66	..	34
(*d*) Sandalwood	..	..	..	..	..	..	18	..	18	..	..	..	..	..
(*e*) Grass and other minor produce	..	..	36	..	29	2	305	..	372	..	5,349	187	11	91
II. Timber and other produce removed from the forests by consumers or purchasers—														
(*a*) Timber	..	11,431	4,368	81,571	11,709	23,270	4,297	2,720	1,39,366	..	8,012	13,989	6,498	7,974
(*b*) Firewood and charcoal	..	8,304	5,735	10,912	12,599	9,706	7,005	2,190	56,451	..	9,995	11,226	12,419	32,356
(*c*) Bamboos	..	5,560	6,373	41,932	1,842	16,468	1,914	117	74,206	..	93	4,678	81	28,095
(*d*) Grazing and fodder grass	..	7,942	3,249	11,873	75,207	39,220	33,344	8,230	1,79,065	..	37,237	34,520	13,477	31,119
(*e*) Other produce	..	3,374	9,218	28,530	18,554	32,773	49,902	50,091	1,92,442	..	43,451	48,342	9,842	33,317
III. Confiscated drift and waifwood	..	403	58	2,750	76	1,063	187	..	4,537	..	296	621	32	90
IV. Revenue from forests not managed by Government	..	..	..	..	..	..	..	..	..	..	..	..	..	..
V. Miscellaneous—														
(*a*) Fines and forfeitures	..	..	..	55	19	1	13	50	138	..	24	163	120	623
(*b*) Other sources	..	578	1,185	3,305	7,534	5,283	4,337	2,227	24,449	..	3,321	3,329	318	958
Total, Receipts	..	44,682	31,326	1,81,000	1,28,005	1,38,204	1,25,112	65,625	7,13,954	..	1,65,392	1,20,004	46,168	1,36,907

Budget heads.	Central Circle—*cont.*					Southern Circle.								
	South Arcot.	Salem.	Trichinopoly	Tanjore.	Total.	Direction.	Nilgiris.	North Coimbatore.	South Coimbatore.	Madura.	Tinnevelly.	North Malabar.	South Malabar.	South Canara.	Total.
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Receipts.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
I. Timber and other produce removed from the forests by Government Agency—															
(*a*) Timber	29	1,084	..	..	3,510	..	2,288	1,546	13,905	205	3,212	53,252	67,604	6,497	1,48,509
(*b*) Firewood and charcoal	164	1,28,968	9,012	..	2,01,794	..	13,921	59	2,100	906	1,825	68	33	533	19,445
(*c*) Bamboos	289	270	..	..	659	..	..	6,030	..	..	..	269	832	3	7,134
(*d*) Sandalwood	..	1,972	..	..	1,972	..	1,019	25,373	..	..	..	..	..	..	26,392
(*e*) Grass and other minor produce	16	38	6	..	5,698	..	1,840	19,383	8,392	2	7	1,096	278	12,183	43,181
II. Timber and other produce removed from the forests by consumers or purchasers—															
(*a*) Timber	3,044	16,472	2,337	605	58,931	..	1,113	3,178	5,923	14,737	4,314	8,396	9,338	2,641	49,640
(*b*) Firewood and charcoal	15,873	9,757	28,089	9,388	1,29,173	..	2,560	12,649	12,127	13,307	43,902	40	381	13,777	98,743
(*c*) Bamboos	1,884	39,668	2,162	336	76,997	..	3,349	4,920	4,379	3,710	311	180	1,984	1,549	20,382
(*d*) Grazing and fodder grass	39,529	52,757	14,720	1,037	2,24,396	..	7,977	46,137	6,967	13,439	5,488	937	108	5,251	86,304
(*e*) Other produce	20,993	47,451	12,639	4,531	2,20,566	..	900	5,606	6,656	25,791	20,410	1,999	1,286	9,496	72,144
III. Confiscated drift and waifwood	201	261	171	97	1,769	..	14	309	271	171	816	1	18	2,041	3,641
IV. Revenue from forests not managed by Government	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
V. Miscellaneous—															
(*a*) Fines and forfeitures	478	2,478	164	53	4,103	..	..	10	71	258	513	56	..	116	1,024
(*b*) Other sources	952	17,858	4,912	1,877	33,525	..	12,776	1,612	29,366	623	3,675	6,153	2,376	3,340	59,921
Total, Receipts	83,452	3,19,034	74,212	17,924	9,63,093	..	47,757	1,26,812	90,157	73,149	84,473	72,447	84,238	57,427	6,36,460

MADRAS, 18th August 1900.

(Signed) W. I. BEYNING, Chief Superintendent.

ANNUAL FORM No. 59—*cont.*

Forest Department, Madras Presidency, Northern Circle.

SUMMARY of Expenditure of the different Districts for the Forest year 1899-1900.

Budget heads.	Direction.	Ganjám.	Vizagapatam.	Gódávari.	Kistna.	Kurnool.	Bellary.	Anantapur.	Total.
I.—Refunds and Drawbacks—Revenue Refunds.	RS.	RS. 15	RS. 1	RS. 133	RS. 159	RS. 337	RS. 158	RS. 582	RS. 1,385
I. Timber and other produce removed from the forests by Government Agency—									
(*a*) Timber	..	4,193	257	603	..	6,209	300	5	11,567
(*b*) Firewood and charcoal	..	..	756	..	92	1,454	13,521	..	15,823
(*c*) Bamboos	..	..	..	..	12	47	7	..	66
(*d*) Sandalwood ..	..	..	..	..	..	..	..	..	..
(*e*) Grass and other minor produce ..	..	..	17	..	3	..	104	..	124
II. Timber and other produce removed from the forests by consumers or purchasers	124	5,281	4,861	12,460	7,439	18,080	3,292	1,194	52,731
III. Confiscated, drift and waif-wood	..	48	54	439	5	69	6	1	622
IV. Revenue from forests not managed by Government	..	..	..	..	..	..	..	..	..
V. Rent of leased forests and payments to share-holders in forests managed by Government	..	..	..	..	..	..	10,000	..	10,000
VI. Live-stock, stores, tools and plant—									
(*a*) Purchase of cattle ..	..	..	..	..	..	..	..	..	..
(*b*) Feed and keep of cattle	..	..	798	1,353	..	521	..	..	2,672
(*c*) Stores, tools and plant	2,951	54	220	1,412	460	3	24	23	5,147
VII. Communications and buildings—									
(*a*) Roads and bridges..	237	692	1,230	5,116	1,556	2,605	126	1,073	12,635
(*b*) Buildings	59	2,051	1,430	2,200	338	3,242	1,149	2,282	12,751
(*c*) Other works ..	..	280	97	1,110	922	750	..	..	3,159
VIII. Demarcation, improvement and extension of forests—									
(*a*) Demarcation ..	..	1,934	3,088	10,946	3,699	4,736	1,161	539	26,103
(*b*) Cost of forest settlement; compensation for land and rights	...	..	8,149	38	1,782	446	309	..	10,724
(*c*) Surveys (1) Local ..	542	1,459	843	1,743	1,773	2,015	475	341	9,191
(2) Survey of India ..	15,068	..	..	..	..	..	..	..	15,068
(*d*) Working plans ..	1,543	..	..	110	..	..	..	..	1,653
(*e*) Sowing and planting.	347	404	378	3,469	2,152	476	1,349	474	9,049
(*f*) Protection from fire.	..	894	442	2,314	269	2,333	1,593	1,100	8,945
(*g*) Other works ..	..	258	..	..	11,360	325	3,767	3,311	19,021
IX. Miscellaneous—									
(*a*) Law charges ..	1	6	210	9	71	3	..	..	300
(*b*) Other charges ..	235	5	142	209	43	3	10	14	661
Total, I.—Refunds and Drawbacks—Revenue Refunds and A—Conservancy and works	21,107	17,574	22,973	43,664	32,135	43,654	37,351	10,939	2,29,397

MADRAS,
18th August 1900.

(Signed) W. I. BRYNING,
Chief Superintendent.

ANNUAL FORM No. 59—*cont*

Forest Department, Madras Presidency, Central Circle.

SUMMARY of Expenditure of the different Districts for the Forest year 1899–1900—*cont.*

Budget heads.	Direction.	Nellore.	Cuddapah.	Chingleput.	North Arcot.	South Arcot.	Salem.	Trichinopoly.	Tanjore.	Total.
I.—Refunds and Drawbacks—Revenue Refunds.	RS.	RS. 2,035	RS. 37	RS. 116	RS. 912	RS. 290	RS. 637	RS. 360	RS. 211	RS. 4,598
I. Timber and other produce removed from the forests by Government Agency—										
(*a*) Timber ..	..	40	7,374	..	52	114	984	..	..	8,564
(*b*) Firewood and charcoal ..	..	26,502	25	842	761	139	79,586	2,424	..	1,10,279
(*c*) Bamboos ..	..	..	52	..	247	198	123	..	..	620
(*d*) Sandalwood ..	..	..	..	..	..	37	322	..	..	359
(*e*) Grass and other minor produce ..	..	3,419	45	..	13	10	154	8	..	3,649
II. Timber and other produce removed from the forests by consumers or purchasers ..	..	4,855	10,007	2,179	946	2,538	9,553	2,009	487	32,574
III. Confiscated, drift and waifwood	..	..	55	..	8	..	27	15	..	105
IV. Revenue from forests not managed by Government	..	..	..	..	..	..	..	..	..	..
V. Rent of leased forests and payments to shareholders in forests managed by Government	..	..	..	..	..	..	20	..	..	20
VI. Live-stock, stores, tools and plant—										
(*a*) Purchase of cattle ..	..	138	..	..	..	..	..	..	..	138
(*b*) Feed and keep of cattle ..	..	17	2	..	..	..	..	..	..	19
(*c*) Stores, tools and plant ..	3,223	1,338	912	1	734	1	271	9	2	6,491
VII. Communications and buildings—										
(*a*) Roads and bridges ..	..	..	312	287	3,617	262	714	40	..	5,232
(*b*) Buildings ..	11	517	1,482	1,347	4,729	381	2,867	298	39	11,671
(*c*) Other works ..	..	..	327	220	153	26	246	..	..	972
VIII. Demarcation, improvement and extension of forests—										
(*a*) Demarcation ..	..	2,701	1,361	743	625	1,930	632	104	..	8,096
(*b*) Cost of forest settlement; compensation for land and rights ..	..	16	37	459	560	..	77	34	..	1,183
(*c*) Surveys (1) Local.	296	924	353	375	838	460	574	366	..	4,186
(2) Survey of India ..	20,685	..	..	..	..	..	..	..	..	20,685
(*d*) Working plans.	..	600	36	..	..	..	28	63	..	727
(*e*) Sowing and planting ..	..	9,151	1,120	505	1,932	3,024	116	882	1,175	17,905
(*f*) Protection from fire	..	1,183	5,572	543	4,978	954	1,268	139	..	14,637
(*g*) Other works ..	..	1,219	3,443	2,152	8,171	5,697	7,819	2,982	455	31,938
IX. Miscellaneous—										
(*a*) Law charges ..	..	..	2	11	5	..	5	..	..	23
(*b*) Other charges ..	81	5	28	6	207	67	305	78	1	778
Total, I.—Refunds and Drawbacks—Revenue Refunds and A—Conservancy and works.	24,296	54,660	32,582	9,786	29,488	16,128	1,06,328	9,811	2,370	2,85,449

MADRAS,
18th August 1900.

(Signed) W. I. BRYNING,
Chief Superintendent.

ANNUAL FORM No. 59—*cont.*

Forest Department, Madras Presidency, Southern Circle.

SUMMARY of Expenditure of the different Districts for the Forest year 1899–1900—*cont.*

Budget heads.	Direction.	The Nilgiris.	North Coimbatore.	South Coimbatore.	Madura.	Tinnevelly.	North Malabar.	South Malabar.	South Canara.	Total.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
I.—Refunds and Drawbacks—Revenue Refunds.		60	1,027	1,117	23	1,152	8	2	71	3,460
I. Timber and other produce removed from the forests by Government Agency—										
(*a*) Timber ..	..	1,882	985	11,597	96	4,731	3,332	17,479	8,526	48,638
(*b*) Firewood and charcoal ..	..	11,377	182	2,266	600	2,455	116	...	314	17,310
(*c*) Bamboos ..	..	..	3,796	..	..	..	155	2,028	..	5,979
(*d*) Sandalwood ..	..	166	3,707	..	..	..	..	..	..	3,873
(*e*) Grass and other minor produce.	..	2,191	10,184	4,279	..	1	251	323	4,419	21,648
II. Timber and other produce removed from the forests by consumers or purchasers ..	..	1,047	3,448	5,696	2,653	867	403	25	4,254	18,393
III. Confiscated, drift and waifwood	..	..	48	25	5	10	2	..	394	484
IV. Revenue from forests not managed by Government	..	..	..	..	..	..	..	..	..	..
V. Rent of leased forests and payments to shareholders in forests managed by Government	..	4,500	..	2,500	..	..	..	..	..	7,000
VI. Live-stock, stores, tools and plant—										
(*a*) Purchase of cattle ..	..	..	..	1,212	..	..	3,797	1,091	..	6,100
(*b*) Feed and keep of cattle ..	..	2,730	..	5,835	..	..	14,055	8,799	1,063	32,482
(*c*) Stores, tools and plant ..	30	408	261	1,511	179	383	884	249	385	4,290
VII. Communications and buildings—										
(*a*) Roads and bridges ..	..	1,533	4,641	2,195	365	3,881	1,822	884	41	15,362
(*b*) Buildings ..	..	2,402	5,607	3,263	2,015	2,065	1,472	2,364	321	19,509
(*c*) Other works ..	..	180	..	3,654	111	204	638	89	141	5,017
VIII. Demarcation, improvement and extension of forests—										
(*a*) Demarcation ..	..	2,644	1,627	134	1,058	262	380	40	5,817	11,962
(*b*) Cost of forest settlement; compensation for land and rights ..	..	..	..	..	..	15	32	..	203	250
(*c*) Surveys { (1) Local ..	15	365	390	126	692	184	548	..	1,580	3,900
{ (2) Survey of India.	33,260	..	..	..	..	..	..	..	..	33,260
(*d*) Working plans.	..	282	..	..	182	..	90	..	..	554
(*e*) Sowing and planting ..	..	7,924	190	171	1,247	405	2,197	7,728	125	19,987
(*f*) Protection from fire	..	2,473	604	2,188	1,672	850	1,251	2,509	985	12,532
(*g*) Other works ..	..	918	5,648	1,348	5,284	4,325	1,096	1,136	532	20,287
IX. Miscellaneous—										
(*a*) Law charges ..	..	..	1	8	27	..	..	143	24	203
(*b*) Other charges ..	89	3,109	140	989	138	126	190	181	113	5,075
Total, I.—Refunds and Drawbacks—Revenue Refunds and A—Conservancy and works.	33,394	46,191	42,486	50,114	16,347	21,916	32,719	45,070	29,318	3,17,555

MADRAS,
18th August 1900.

(Signed) W. I. BRYNING,
Chief Superintendent.

ANNUAL FORM No. 59—*cont.*

SUMMARY of Expenditure of the different Districts for the Forest year 1899–1900.

Budget heads.	Northern Circle.									Central Circle.										Southern Circle.									
	Direction.	Ganjám.	Vizagapatam.	Gódávari.	Kistna.	Kurnool.	Bellary.	Anantapur.	Total.	Direction.	Nellore	Cuddapah.	Chingleput.	North Arcot.	South Arcot.	Salem.	Trichinopoly.	Tanjore.	Total.	Direction.	Nilgiris.	North Coimbatore.	South Coimbatore.	Madura.	Tinnevelly.	North Malabar.	South Malabar.	South Canara.	Total.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
B.—"Establishments."	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Brought forward, Total A. "Conservancy and Works"	21,107	17,574	22,973	43,664	32,135	43,654	37,351	10,939	2,29,397	24,296	54,660	32,582	9,786	29,488	16,128	1,06,328	9,811	2,370	2,85,449	33,394	46,191	42,486	50,114	16,347	21,916	32,719	45,070	29,318	3,17,555
I. Salaries—																													
(*a*) Conservators ...	13,200	...	...	...	...	...	...	...	13,200	20,423	...	...	...	...	...	...	...	...	20,423	15,616	...	...	...	...	...	...	...	...	15,616
(*b*) Superior officers ...	18,900	7,811	5,466	13,935	4,800	10,178	6,500	10,891	78,481	10,617	9,168	12,662	11,270	10,539	11,651	15,588	9,372	...	90,867	15,780	17,762	13,147	6,551	9,600	9,010	7,379	3,134	3,500	90,863
(*c*) Subordinate forest and depot establishments ...	1,974	8,717	5,524	12,174	10,148	13,426	7,514	6,923	66,400	474	19,232	14,383	5,706	15,598	9,467	15,891	6,573	1,702	80,026	294	11,200	9,694	10,714	16,087	12,113	6,359	7,347	9,872	77,680
(*d*) Office establishments.	10,579	3,067	2,043	4,383	3,826	4,148	3,024	2,472	33,542	9,719	3,916	3,848	2,019	3,824	2,951	3,733	2,142	920	33,072	9,800	3,544	3,877	3,622	3,782	3,829	3,123	2,451	4,401	38,429
(*e*) Deputation and Special allowances.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1,076	...	226	...	...	...	...	...	...	1,302
(*f*) Exchange compensation allowances ...	1,492	476	164	656	254	572	63	85	3,762	1,428	489	382	631	439	564	590	376	...	4,899	1,764	605	648	394	579	396	281	297	329	5,293
II. Travelling allowances—																													
(*a*) Conservators ...	4,369	...	...	...	...	...	...	...	4,369	2,040	...	...	...	...	...	...	...	...	2,040	2,535	...	...	— 13	...	...	...	...	...	2,522
(*b*) Superior officers ...	7,162	1,262	1,048	4,181	1,270	2,043	1,406	1,570	19,942	3,859	1,410	2,625	1,020	2,266	1,495	2,964	305	141	16,085	4,849	1,800	1,824	1,779	1,313	1,924	1,874	921	1,333	17,617
(*c*) Subordinate forest and depot establishments ...	616	2,118	1,435	3,028	3,010	3,892	2,289	1,611	17,999	176	2,979	3,196	1,456	3,642	2,197	5,498	2,061	1,221	22,426	163	2,908	3,092	3,155	3,202	2,874	2,110	2,423	2,944	22,871
(*d*) Office establishments	3,540	606	345	689	748	1,234	325	618	8,105	1,418	912	540	230	812	360	571	226	221	5,290	1,931	290	482	418	877	504	712	202	599	5,925
III. Contingencies—																													
(*a*) Stationery ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
(*b*) Rents, rates and taxes	236	62	443	199	140	167	112	166	1,525	...	131	303	60	69	30	49	40	...	682	59	217	118	61	19	187	34	— 117	31	609
(*c*) Official postage ...	673	539	289	1,053	1,189	808	657	587	5,795	589	401	845	661	1,562	1,367	2,279	500	185	8,389	452	411	712	555	764	663	263	277	994	5,091
(*d*) Service telegrams.	279	27	57	58	45	109	21	14	610	103	40	25	6	150	17	55	24	7	427	204	38	17	10	25	51	37	4	34	420
(*e*) Sundries	1,945	1,303	721	2,023	1,939	1,727	1,373	900	11,931	1,126	1,200	1,315	417	2,444	478	2,240	513	194	9,927	1,239	1,238	2,113	1,110	1,152	1,424	1,224	662	1,181	11,343
Total B.—"Establishments" ...	64,965	25,988	17,535	42,379	27,369	38,304	23,284	25,837	2,65,661	51,972	30,878	40,124	23,476	41,345	30,577	49,458	22,132	4,591	2,94,553	55,762	39,923	35,950	28,356	31,400	32,975	23,396	22,601	25,218	2,75,581
Grand Total of Expenditure.	86,072	43,562	40,508	86,043	59,504	81,958	60,635	36,776	4,95,058	76,268	85,538	72,706	33,262	70,833	46,705	1,55,786	31,943	6,961	5,80,002	89,156	86,114	78,436	78,470	47,747	54,891	56,115	67,671	54,536	6,13,136

MADRAS,
18th August 1900.

(Signed) W. I. BRYNING,
Chief Superintendent.

SUMMARY of Receipts and Expenditure during 1899–1900 for each Circle and for the Presidency prepared in the Board's office from the Accountant-General's Statement.

Budget heads.	Northern Circle.	Central Circle.	Southern Circle.	Grand Total, Presidency.	
				1899–1900.	1898–99.
1	2	3	4	5	6
RECEIPTS.	RS.	RS.	RS.	RS.	RS.
I. Timber and other produce removed from the forests by Government Agency—					
(a) Timber	19,813	3,510	1,48,509	1,71,832	1,67,411
(b) Firewood and charcoal	22,961	2,01,794	19,445	2,44,200	1,96,273
(c) Bamboos	136	659	7,134	7,929	8,159
(d) Sandalwood	18	1,972	26,392	28,382	27,796
(e) Grass and other minor produce	372	5,698	43,181	49,251	50,008
Total, I	43,300	2,13,633	2,44,661	5,01,594	4,49,647
II. Timber and other produce removed from the forests by consumers or purchasers—					
(a) Timber	1,39,366	58,931	49,640	2,47,937	2,08,708
(b) Firewood and charcoal	56,451	1,29,173	98,743	2,84,367	2,80,036
(c) Bamboos	74,206	76,997	20,382	1,71,585	1,59,711
(d) Grazing and fodder grass	1,79,065	2,24,396	86,304	4,89,765	4,84,043
(e) Other produce	1,92,442	2,20,566	72,144	4,85,152	4,46,992
Total, II	6,41,530	7,10,063	3,27,213	16,78,806	15,29,490
III. Confiscated drift and waifwood	4,537	1,769	3,641	9,947	12,543
V. Miscellaneous—					
(a) Fines and forfeitures	138	4,103	1,024	5,265	4,062
(b) Other sources	24,449	33,525	59,921	1,17,895	79,512
Total, V	24,587	37,628	60,945	1,23,160	83,574
Grand Total, Receipts	7,13,954	9,63,093	6,36,460	23,13,507	20,75,254
EXPENDITURE.					
A.—Conservancy and Works.					
Refunds	1,385	4,598	3,460	9,443	13,367
I. Timber and other produce removed from the forests by Government Agency—					
(a) Timber	11,567	8,564	48,638	68,769	69,269
(b) Firewood and charcoal	15,823	1,10,279	17,310	1,43,412	1,18,410
(c) Bamboos	66	620	5,979	6,665	6,489
(d) Sandalwood	..	359	3,873	4,232	4,454
(e) Grass and other minor produce	124	3,649	21,648	25,421	18,246
Total, A-I	27,580	1,23,471	97,448	2,48,499	2,16,868
II. Timber and other produce removed from the forests by consumers or purchasers	52,731	32,574	18,393	1,03,698	93,723
III. Confiscated drift and waifwood	622	105	484	1,211	1,460
V. Rent of leased forests and payments to shareholders in forests managed by Government	10,000	20	7,000	17,020	17,501
VI. Live-stock, stores, tools and plant—					
(a) Purchase of cattle	..	138	6,100	6,238	4,298
(b) Feed and keep of cattle	2,672	19	32,482	35,173	28,598
(c) Stores, tools and plant	5,147	6,491	4,290	15,928	7,812
Total, A-VI	7,819	6,648	42,872	57,339	40,708
VII. Communications and buildings—					
(a) Roads and bridges	12,635	5,232	15,362	33,229	38,614
(b) Buildings	12,751	11,671	19,509	43,931	49,409
(c) Other works	3,159	972	5,017	9,148	5,376
Total, A-VII	28,545	17,875	39,888	86,308	93,399
VIII. Demarcation, improvement and extension of forests—					
(a) Demarcation	26,103	8,096	11,962	46,161	35,430
(b) Cost of forest settlement, compensation for land and rights	10,724	1,183	250	12,157	29,653
(c) (1) Local surveys	9,191	4,186	3,900	17,277	15,846
(c) (2) Survey of India	15,068	20,685	33,260	69,013	67,982
(d) Working plans	1,653	727	554	2,934	2,063
(e) Sowing and planting	9,049	17,905	19,987	46,941	32,483
(f) Protection from fire	8,945	14,637	12,532	36,114	34,532
(g) Other works	19,021	31,938	20,287	71,246	67,266
Total, A-VIII	99,754	99,357	1,02,732	3,01,843	2,55,255

Summary of Receipts and Expenditure during 1899–1900 for each Circle and for the Presidency prepared in the Board's office from the Accountant-General's Statement—*cont.*

Budget heads.	Northern Circle.	Central Circle.	Southern Circle.	Grand Total, Presidency.	
				1899–1900.	1898–99.
1	2	3	4	5	6
EXPENDITURE—*cont.*					
A.—Conservancy and Works—cont.	Rs.	Rs.	Rs.	Rs.	Rs.
IX. Miscellaneous—					
(*a*) Law charges	300	23	203	526	— 62
(*b*) Other charges	661	778	5,075	6,514	5,582
Total, A-IX ..	961	801	5,278	7,040	5,520
Total, A.—Conservancy and Works ..	2,29,397	2,85,449	3,17,555	8,32,401	7,67,801
B.—Establishments.					
I. Salaries—					
(*a*) Conservators	13,200	20,423	15,616	49,239	43,386
(*b*) Superior officers	78,481	90,867	90,863	2,60,211	2,61,224
(*c*) Subordinate forest and depot establishments.	66,400	80,026	77,680	2,24,106	2,16,714
(*d*) Office establishments	33,542	33,072	38,429	1,05,043	1,01,186
(*e*) Deputation and Special allowances ..	..	..	1,302	1,302	723
(*f*) Exchange compensation allowances ..	3,762	4,899	5,293	13,954	15,288
Total, B-I ..	1,95,385	2,29,287	2,29,183	6,53,855	6,38,521
II. Travelling allowances—					
(*a*) Conservators	4,369	2,040	2,522	8,931	8,675
(*b*) Superior officers	19,942	16,085	17,617	53,644	48,674
(*c*) Subordinate forest and depot establishments.	17,999	22,426	22,871	63,296	58,754
(*d*) Office establishments	8,105	5,290	5,925	19,320	17,310
Total, B–II ..	50,415	45,841	48,935	1,45,191	1,33,413
III. Contingencies—					
(*a*) Stationery	..	..	..	..	..
(*b*) Carriage of tents	..	..	..	..	835
(*c*) Rents, rates and taxes	1,525	682	609	2,816	2,507
(*d*) Official postage	5,795	8,389	5,091	19,275	18,330
(*e*) Service telegrams	610	427	420	1,457	1,436
(*f*) Sundries	11,931	9,927	11,343	33,201	29,306
Total, B-III ..	19,861	19,425	17,463	56,749	52,414
Total, B.—Establishments ..	2,65,661	2,94,553	2,95,581	8,55,795	8,24,348
Grand Total, Expenditure ..	4,95,058	5,80,002	6,13,136	16,88,196	15,92,149
Surplus ..	2,18,896	3,83,091	23,324	6,25,311	4,83,105
Deficit ..	..	..	..	..	..
Total ..	7,13,954	9,63,093	6,36,460	23,13,507	20,75,254

ANNUAL FORM No. 60.

Forest Department, Madras Presidency.

OUTSTANDINGS and Liabilities on account of Contractors and Disbursers for the Forest year 1899–1900.

	District.	Department Debtor.			Department Creditor.			Balance due	
		At commencement of year.	Recoveries in cash and value of supplies and work done during the year.	At close of year.	At commencement of year.	Payments made during year.	At close of year.	To department (outstandings).	By department (liabilities).
		RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
Northern Circle.	Conservator, Northern Circle	..	12,939 0 1	12,939 0 1	158 14 6	13,761 14 9	13,920 13 3	981 13 2	..
	Forest Settlement-officer. Ganjám, &c., districts.	..	727 1 7	727 1 7	38 10 6	726 15 6	765 10 0	38 8 5	..
	Forest Settlement-officer, Nellore, &c., districts.	..	706 10 2	706 10 2	51 1 6	683 15 11	735 1 5	28 7 3	..
	Forest School, Dehra Dun	..	50 0 0	50 0 0	18 10 8	50 0 0	68 10 8	18 10 8	..
	Ganjám	..	33,167 14 0	33,167 14 0	710 8 6	33,762 9 2	34,473 1 8	1,305 3 8	..
	Vizagapatam	..	23,151 4 4	23,151 4 4	517 15 5	22,979 6 10	23,497 6 3	346 1 11	..
	Gódávari	..	76,655 10 11	76,655 10 11	1,158 15 4	77,453 9 1	78,612 8 5	1,956 13 6	..
	Kistna	..	58,942 0 5	58,942 0 5	1,661 12 0	58,155 12 1	59,817 8 1	875 7 8	..
	Kurnool	..	73,144 9 1	73,144 9 1	7,648 15 0	68,431 1 6	76,080 0 6	2,935 7 5	..
	Bellary	..	48,495 4 3	48,495 4 3	1,438 13 4	48,273 8 4	49,712 5 8	1,217 1 5	..
	Anantapur	..	24,364 6 8	24,364 6 8	1,024 3 5	24,432 10 4	25,456 13 9	1,092 7 1	..
	Total ..	..	3,52,343 13 6	3,52,343 13 6	14,428 8 2	3,48,711 7 6	3,63,139 15 8	10,796 2 2	..
Central Circle.	Conservator, Central Circle	..	1,164 12 7	1,164 12 7	85 4 11	1,482 7 7	1,567 12 6	402 15 11	..
	Forest Settlement-officer, North Arcot, &c., districts	..	192 5 7	192 5 7	14 14 0	195 12 3	210 10 3	18 4 8	..
	Forest Settlement-officer, Trichinopoly, &c., districts	..	2,145 2 4	2,145 2 4	21 6 6	2,131 11 10	2,153 2 4	8 0 0	..
	Forest School, Dehra Dun	..	50 0 0	50 0 0	..	50 0 0	50 0 0	..	..
	Nellore	..	69,031 0 1	69,031 0 1	1,263 14 10	72,412 11 10	73,676 10 8	4,645 10 7	..
	Cuddapah	..	55,888 15 9	55,888 15 9	1,184 14 11	55,229 15 4	56,414 14 3	525 14 6	..
	Chingleput	..	23,052 11 2	23,052 11 2	707 15 5	22,768 15 0	23,476 14 5	424 3 3	..
	North Arcot	..	62,942 12 3	62,942 12 3	1,970 2 5	62,725 15 2	64,696 1 7	1,753 5 4	..
	South do.	..	36,407 12 7	36,407 12 7	915 6 2	36,481 12 8	37,397 2 10	989 6 3	..
	Salem	..	1,20,259 12 1	1,20,259 12 1	10,479 0 4	1,13,769 0 11	1,24,248 1 3	3,988 5 2	..
	Trichinopoly	..	21,009 2 11	21,009 2 11	641 9 3	21,831 15 9	22,473 9 0	1,464 6 1	..
	Tanjore	..	8,835 4 3	8,835 4 3	144 14 10	8,702 12 11	8,847 11 9	12 7 6	..
	Total ..	..	4,00,979 11 7	4,00,979 11 7	17,429 7 7	3,97,783 3 3	4,15,212 10 10	14,232 15 3	..
Southern Circle.	Conservator, Southern Circle	..	7,276 9 9	7,276 9 9	43 14 8	7,311 0 4	7,354 15 0	78 5 3	..
	Forest Settlement-officer, Malabar, &c., districts.	..	539 1 2	539 1 2	38 8 10	512 9 5	551 2 3	12 1 1	..
	Forest Settlement-officer, Trichinopoly, &c., districts	..	2,145 2 3	2,145 2 3	21 6 6	2,131 11 9	2,153 2 3	8 0 0	..
	Forest School, Dehra Dun	..	60 0 0	60 0 0	78 5 4	60 0 0	138 5 4	78 5 4	..
	The Nilgiris	..	55,025 14 0	55,025 14 0	1,361 0 4	55,613 9 2	56,974 9 6	1,948 11 6	..
	North Coimbatore ..	..	89,470 2 1	89,470 2 1	1,874 10 9	91,595 9 6	93,470 4 3	4,000 2 2	..
	South do. ..	..	50,840 11 11	50,840 11 11	1,350 12 6	51,445 1 9	52,795 14 3	1,955 2 4	..
	Madura	..	39,741 15 1	39,741 15 1	1,464 0 8	40,102 15 2	41,566 15 10	1,825 0 9	..
	Tinnevelly	..	50,982 12 1	50,982 12 1	2,641 11 4	48,632 7 2	51,274 2 6	291 6 5	..
	North Malabar	..	35,281 13 8	35,281 13 8	1,585 5 11	35,280 2 2	36,865 8 1	1,583 10 5	..
	South do.	..	62,012 11 1	62,012 11 1	1,186 2 8	62,984 13 8	64,171 0 4	2,158 5 3	..
	South Canara	..	44,167 5 9	44,167 5 9	550 12 4	45,156 11 3	45,707 7 7	1,540 1 10	..
	Total ..	..	4,37,544 2 10	4,37,544 2 10	12,196 11 10	4,40,826 11 4	4,53,023 7 2	15,479 4 4	..

MADRAS,
29th August 1900.

(Signed) W. I. BRYNING,
Chief Superintendent.

ANNUAL FORM No. 61.

Forest Department, Madras Presidency.

REVENUE received and Outstandings on account of Revenue during the Forest year 1899–1900.

	District.	Particulars.	Outstandings at commencement of year.	Value of sales and other revenue during year.	Total.	Amount realized during year.	Balance due to the department at end of year.
			RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
Northern Circle.	Direction	Timber and other forest produce.	..	..	..	..	..
	Ganjám	Do. do.	0 6 4	44,680 13 8	44,681 4 0	44,681 4 0	..
	Vizagapatam ..	Do. do.	..	31,326 7 0	31,326 7 0	31,326 7 0	..
	Gódávari	Do. do.	3,621 11 0	1,78,358 3 2	1,81,979 14 2	1,80,999 14 2 + * 53 0 0	927 0 0
	Kistna	Do. do.	693 12 8	1,30,738 4 6	1,31,432 1 2	1,28,005 8 2	3,426 9 0
	Kurnool	Do. do.	4,319 0 4	1,48,988 9 9	1,53,307 10 1	1,38,203 12 4 +† 2,406 4 0	12,697 9 9
	Bellary	Do. do.	15,158 11 0	1,34,908 14 0	1,50,067 9 0	1,25,111 3 6 +† 6,745 7 0	18,210 14 6
	Anantapur	Do. do.	13,512 2 7	81,716 11 10	95,228 14 5	66,625 14 7 + ‡ 135 0 0	29,467 15 10
		Total ..	37,305 11 11	7,50,717 15 11	7,88,023 11 10	7,23,293 10 9	64,730 1 1
Central Circle.	Direction	Timber and other forest produce.	..	..	..	..	..
	Nellore	Do. do.	2,933 7 1	1,75,475 10 4	1,78,409 1 5	1,65,392 13 10	13,016 3 7
	Cuddapah	Do. do.	6,242 15 4	1,26,717 5 5 + 1,395 5 4	1,32,960 4 9 + 1,395 5 4	1,20,004 11 11 +† 1,345 0 0 + δ 50 5 4	12,955 8 10
	Chingleput	Do. do.	10,496 0 1	43,942 10 6	54,438 10 7	46,167 2 11 + ‡ 3 12 0	8,267 11 8
	North Arcot	Do do.	26,517 6 1	1,46,255 5 2	1,72,772 11 3	1,36,907 2 6 +‖ 2,848 14 9	33,016 10 0
	South Arcot	Do. do.	10,032 2 0	77,989 8 11	88,021 10 11	83,451 3 6	4,570 7 5
	Salem	Do. do.	40,246 11 0	2,97,220 15 9	3,37,467 10 9	3,19,034 1 10	18,433 8 11
	Trichinopoly ..	Do. do.	5,774 0 3	75,526 12 7	81,300 12 10	74,211 5 8 + ‡ 157 10 3	6,931 12 11
	Tanjore	Do. do.	2,508 13 0	17,944 15 2	20,453 12 2	17,923 8 0	2,530 4 2
		Total ..	1,04,751 6 10	9,62,468 9 2	10,67,220 0 0	9,67,497 12 6	99,722 3 6
Southern Circle.	Direction	Timber and other forest produce.	..	..	..	..	..
	The Nilgiris ..	Do. do.	1,061 10 4	47,898 10 2	48,960 4 6	47,757 13 11	1,202 6 7
	North Coimbatore ..	Do. do.	106 9 0	1,27,373 9 6	1,27,480 2 6	1,26,812 10 6	667 8 0
	South do. ..	Do. do.	2,234 8 0	89,852 5 9	92,086 13 9	90,156 15 9	1,929 14 0
	Madura	Do. do.	74,749 15 5 —** 68,854 6 9	82,618 7 5	88,514 0 1	73,148 6 3	15,365 9 10
	Tinnevelly	Do. do.	8,334 4 9	89,364 1 1	97,698 5 10	84,472 5 3	13,226 0 7
	North Malabar ..	Do. do.	27,582 4 2 £18 15 0 or RS. A. P. 256 5 9	68,246 3 10	96,084 13 9	72,446 14 9 + † 121 0 0	23,516 15 0
	South do. ..	Do. do.	11,413 6 7	79,079 15 1	90,493 5 8	84,238 1 8	6,255 4 0
	South Canara ..	Do. do.	916 2 0	65,840 5 3	66,756 7 3	57,426 9 5 + ¶ 288 10 0	9,041 3 10
		Total ..	1,26,398 12 3 — 68,854 6 9 £18 15 0 or RS. A. P. 256 5 9	6,50,273 10 1	7,08,074 5 4	6,36,459 13 6 + 409 10 0	71,204 13 10

* Written off under Government Order, No. 132, Revenue, dated 21st February 1899.
† Do. do. ,, 163, ,, ,, 26th ,, 1900.
‡ Do do. ,, 557, ,, ,, 22nd August 1899.
δ Do. do. ,, 433, ,, ,, 8th May 1900.
‖ Do. do. ,, 726, ,, ,, 29th November 1898.

¶ Written off under Government Order, No. 503, Revenue, dated 26th September 1897 .. RS. A. P. 130 6 0
Do. do. ,, 1038, ,, ,, 10th December 1898 .. 18 4 0
Do. do. ,, 504, ,, ,, 31st August 1898 .. 10 0 0
Do. do. ,, 340, ,, ,, 30th May 1899 .. 130 0 0
Total .. 288 10 0

** Balance reduced by the District Forest-officer as per Accountant-General's L.F.D. No. 624, dated 23rd October 1899.

MADRAS,
29th August 1900.

(Signed) W. I. BRYNING,
Chief Superintendent.

Annual Form No. 62.

Forest Department, Madras Presidency.

Financial Results of the year 1899–1900.

Districts.	Timber and other produce removed from the forests by Government Agency.		Other revenue.		Formation, protection and improvement of forests.	Total.	
	Receipts.	Charges.	Receipts.	Charges.	Charges.	Receipts.	Charges.
Northern Circle.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Ganjám	7,493	7,603	37,189	23,069	19,998	44,682	50,670
Vizagapatam	1,140	2,452	30,186	18,115	24,679	31,326	45,246
Gódávari	2,822	2,129	1,78,178	55,937	39,823	1,81,000	97,889
Kistna	465	985	1,27,540	32,856	39,878	1,28,005	73,719
Kurnool	10,420	9,487	1.27,784	52,143	49,611	1,38,204	1,11,169
Bellary	24,113	17,988	1,00,999	25,509	26,615	1,25,112	70,112
Anantapur	..	5	65,625	27,608	18,640	65,625	46,253
Total ..	46,453	40,649	6,67,501	2,35,237	2,19,244	7,13,954	4,95,058
Central Circle.							
Cuddapah	3,066	11,706	1,16,938	39,477	53,458	1,20,004	1,04,641
Nellore	62,963	38,979	1,02,429	23,633	28,186	1,65,392	90,798
Chingleput	3,381	1,059	42,787	19,479	15,323	46,168	35,861
North Arcot	2,375	5,168	1,34,532	30,094	44,767	1,36,907	80,029
South do.	498	3,696	82,954	23,980	26,895	83,452	54,571
Salem	1,32,332	93,310	1,86,702	39,255	36,137	3,19,034	1,68,702
Trichinopoly	9,018	4,710	65,194	18,404	14,026	74,212	37,140
Tanjore	..	491	17,924	4,625	3,144	17,924	8,260
Total ..	2,13,633	1,59,119	7,49,460	1,98,947	2,21,936	9,63,093	5,80,002
Southern Circle.							
South Canara	19,216	30,463	38,211	9,741	36,782	57,427	76,986
North Malabar	54,685	42,999	17,762	905	18,198	72,447	62,102
South do.	68,747	49,974	15,491	229	24,685	84,238	74,888
The Nilgiris	19,068	40,894	28,689	4,366	50,032	47,757	95,292
North Coimbatore ..	52,391	40,197	74,421	8,294	54,937	1,26,812	1,03,428
South do. ..	24,397	47,803	65,760	11,459	27,590	90,157	86,852
Madura	1,113	3,061	72,036	8,815	40,966	73,149	52,842
Tinnevelly	5,044	22,700	79,429	4,152	33,894	84,473	60,746
Total ..	2,44,661	2,78,091	3,91,799	47,961	2,87,084	6,36,460	6,13,136
Grand Total ..	5,04,747	4,77,859	18,08,760	4,82,145	7,28,264	23,13,507	16,88,196

ANNUAL FORM

Forest Department,

ABSTRACT showing the Value of Live-stock,

Districts.	Surveying, &c., instruments				Tools			
	On hand at commencement of the year.		On hand at end of the year.		On hand at commencement of the year.		On hand at end of the year.	
	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.
1	2	3	4	5	6	7	8	9
Northern Circle.		RS.		RS.		RS.		RS.
Direction	25	420	39	700	11	20	11	15
Ganjám	44	442	40	465	329	167	337	185
Vizagapatam	* 39	* 666	40	695	* 330	* 352	364	557
Gódávari	111	517	116	782	967	1,776	1,058	2,598
Kistna	82	* 900	82	815	512	277	552	324
Kurnool	83	859	82	790	1,000	827	808	694
Bellary	97	247	143	277	547	560	548	523
Anantapur	53	* 211	71	210	379	688	493	761
Total, Northern Circle ..	* 534	* 4,262	613	4,734	* 4,075	* 4,667	4,171	5,657
Central Circle.								
Direction	43	705	46	706	4	14	6	14
Cuddapah	125	1,057	129	1,066	* 565	* 10,628	560	1,539
Nellore	68	* 335	67	300	* 442	* 187	456	228
Chingleput	* 39	* 384	39	370	444	515	415	478
North Arcot	73	685	129	829	838 cwt. 33	565	1,184 cwt. 33	907
South do.	111	1,804	111	1,213	* 428	268	347	2
Salem	136	1,465	141	1,538	1,759	3,785	2,076	2,089
Trichinopoly	53	499	53	469	1,028	541	1,028	472
Tanjore	20	90	20	81	71	44	70	43
Total, Central Circle ..	* 668	* 7,024	735	6,572	* 5,579 cwt. 33	* 16,547	6,142 cwt. 33	5,772
Southern Circle.								
Direction	42	462	42	462	2	45	3	45
South Canara	118	1,176	130	829	480	734	548	630
North Malabar	26	963	26	963	491	1,160	533	1,233
South do.	35	831	35	788	737	645	784	544
The Nilgiris	* 61	1,077	95	1,061	530	1,426	577	1,499
North Coimbatore	63	913	63	823	526	* 441	554	549
South do.	101	* 1,487	98	1,401	* 685	945	657	877
Madura	87	1,902	108	2,053	207	262	265	336
Tinnevelly	91	1,596	96	1,596	549	1,170	544	1,167
Total, Southern Circle ..	* 624	10,407	693	9,976	* 4,207	* 6,828	4,465	6,880
Total, Presidency ..	* 1,826	* 21,693	2,041	21,282	* 13,861 cwt. 33	* 28,042	14,778 cwt. 33	18,309

* Revised figures.

No. 64.

Madras Presidency.

Stores, Tools and Plant for 1899–1900.

Machinery				Furniture				Building materials, small stores, tents, boats, &c.			
On hand at commencement of the year.		On hand at end of the year.		On hand at commencement of the year.		On hand at end of the year.		On hand at commencement of the year.		On hand at end of the year.	
Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.
10	11	12	13	14	15	16	17	18	19	20	21
	Rs.		Rs.		Rs.		Rs.		Rs.		Rs.
..	..	..	..	75	550	91	570	5	650	15	1,280
..	..	..	..	125	1,887	173	1,859	..	..	..	..
..	..	..	..	* 159	* 1,043	159	811	6	* 455	8	575
1	102	1	102	517	2,536	518	2,651	21	3,804	23	4,021
..	..	..	..	133	* 557	154	580	* 9	2,416	15	3,215
..	..	..	..	135	515	139	490	7	1,758	7	1,580
..	..	..	..	68	431	81	497	6	831	10	1,240
..	..	..	..	119	647	127	730	4	634	10	1,465
1	102	1	102	* 1,331	* 8,166	1,442	8,188	* 58	* 10,548	88	13,376
..	..	..	..	121	756	126	733	5	702	8	716
..	..	..	..	129	* 1,056	132	1,091	..	..	..	..
* 2¾ mls. 48	* 17,068	2¾ mls. 67	21,587	* 90	* 331	88	281	* 10	* 3,405	10	3,261
..	..	..	..	159	829	161	819	4	..	4	..
12	57	12	54	424	1,291	536	1,728	6	550	18	2,190
9	398	9	210	2,034	1,945	1,156	1,168	9	1,128	9	1,128
2	21	2	21	444	2,000	457	2,035	..	..	..	..
..	..	..	..	142	827	139	748	4	618	4	618
..	..	..	..	40	326	50	364	..	..	..	..
* 71 2¾ mls.	* 17,544	90 2¾ mls.	21,872	* 3,583	* 9,361	2,845	8,967	* 38	* 6,403	53	7,913
..	..	..	..	108	794	111	805	5	733	6	733
..	..	..	..	178	1,394	186	1,389	8	951	10	1,227
..	..	..	..	140	944	140	944	..	..	4	702
* 26	* 157	29	142	103	786	108	779	4	343	4	302
1	200	1	200	146	1,261	153	1,266	8	896	8	896
..	..	..	..	* 191	* 698	194	584	87	* 1,352	89	1,131
* 5,621 7,950 ft.	* 12,924	5,697 7,980 ft. 1 lb.	12,892	* 686	* 2,571	699	2,531	9	1,009	13	1,525
5	6	4	13	231	1,795	243	1,926	796	1,357	625	1,152
18	302	17	281	575	2,430	538	2,386	* 6	682	6	682
* 5,671 7,950 ft.	* 13,589	5,748 7,980 ft. 1 lb.	13,528	* 2,358	* 12,673	2,372	12,610	* 923	* 7,323	765	8,350
* 5,743 2¾ mls. 7,950 ft.	* 31,235	5,839 2¾ mls. 7,980 ft. 1 lb.	35,502	* 7,272	* 30,200	6,659	29,765	* 1,019	* 24,274	906	29,639

Abstract showing the Value of Live-stock,

Districts.	Buildings				Live-stock			
	On hand at commencement of the year.		On hand at end of the year.		On hand at commencement of the year.		On hand at end of the year.	
	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.
	22	23	24	25	26	27	28	29
Northern Circle.		RS.		RS.		RS.		RS.
Direction	..	..	..	..	..	..	..	..
Ganjám	31	15,984	33	16,029	..	..	..	..
Vizagapatam	* 42	* 5,727	42	5,727	1	..	1	..
Gódávari	71	32,069	85	32,619	2	..	2	..
Kistna	77	12,335	66	11,482	..	..	..	..
Kurnool	61	35,037	62	35,440	1	1,600	1	1,600
Bellary	25	4,365	25	5,195	..	..	..	..
Anantapur	* 17	14,619	19	16,619	..	..	..	..
Total, Northern Circle ..	* 324	* 1,20,136	332	1,23,111	4	1,600	4	1,600
Central Circle.								
Direction	..	..	..	..	..	..	..	..
Cuddapah	* 117	* 21,519	120	21,613	2	56	2	56
Nellore	10	* 4,355	10	4,610	..	..	3	105
Chingleput	17	4,985	20	5,524	..	..	..	..
North Arcot	51	10,460	55	13,267	..	..	..	..
South do.	19	19,746	18	17,474	..	..	..	..
Salem	22	16,500	29	18,225	..	..	..	..
Trichinopoly	8	2,795	8	3,070	..	..	..	..
Tanjore	7	631	7	612	..	..	..	..
Total, Central Circle ..	* 251	* 80,991	267	84,395	2	56	5	161
Southern Circle.								
Direction	..	..	..	..	..	..	..	..
South Canara	14	7,603	16	9,560	2	..	2	..
North Malabar	..	..	..	..	15	28,550	32	44,950
South do.	33	37,674	32	37,626	18	33,700	20	35,500
The Nilgiris	62	9,911	69	11,651	7	7,900	4	3,300
North Coimbatore	* 59	* 25,450	65	26,354	..	..	..	..
South do.	57	* 30,277	56	28,916	7	13,500	9	11,000
Madura	51	25,143	54	26,361	..	..	..	..
Tinnevelly	70	28,821	70	29,091	..	..	..	..
Total, Southern Circle ..	* 346	* 1,64,879	362	1,69,559	49	78,650	67	94,750
Total, Presidency ..	* 921	* 3,66,006	961	3,77,065	55	80,306	76	96,511

* Revised figures.

Stores, Tools and Plant for 1899-1900—*cont.*

Miscellaneous				Total.					
On hand at commencement of the year.		On hand at end of the year.		On hand at commencement of the year.		On hand at end of the year.		Difference in value	
Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	In favour of the year.	Against the year.
30	31	32	33	34	35	36	37	38	39
	Rs.		Rs.		Rs.		Rs.	Rs.	Rs.
1	100	1	100	117	1,740	157	2,665	925	..
..	..	..	..	529	18,480	583	18,538	58	..
* 69	* 147	68	106	* 646	* 8,390	682	8,471	81	..
556	782	565	798	* 2,246	41,686	2,368	43,671	1,985	..
..	..	..	..	* 813	* 16,485	869	16,416	..	69
36	223	39	465	1,323	40,819	1,138	41,059	240	..
33	116	46	151	776	6,550	853	7,883	1,333	..
..	..	..	..	* 572	* 16,799	720	* 19,785	2,986	..
* 695	* 1,368	719	1,620	* 7,022	* 1,50,849	7,370	1,58,388	7,608	69
39	608	39	593	212	2,785	225	2,762	..	23
..	..	..	..	* 938	* 84,316	943	25,365	..	8,951
* 210	* 411	216	376	* 878	* 26,092	917	30,748	4,656	..
115	169	121	170	* 2¾ mls. 778	* 6,882	2¾ mls. 760	7,361	479	..
..	..	..	..	1,404 cwt. 33	13,608	1,934 cwt. 33	18,975	5,367	..
590	1,552	660	884	* 3,200	26,841	2,310	22,079	..	4,762
32	2,000	38	2,153	2,395	25,771	2,743	26,061	290	..
2,305	952	2,306	891	3,540	6,232	3,538	6,268	36	..
* 41	104	42	100	179	1,195	189	1,200	5	..
* 3,332	* 5,796	3,422	5,167	* 13,524 cwt. 33 2¾ mls.	* 1,43,722	13,559 cwt. 33 2¾ mls.	1,40,819	10,833	13,736
680	625	513	531	837	2,659	675	2,576	..	83
626	1,794	601	1,162	1,426	13,652	1,493	14,797	1,145	..
..	..	..	..	672	26,617	735	48,792	22,175	..
264	1,334	268	1,135	* 1,220	* 75,470	1,280	76,816	1,346	..
19	158	38	217	* 834	22,829	945	20,090	..	2,739
* 115	185	122	166	* 1,041	* 29,039	1,087	29,607	568	..
* 605	* 976	617	944	* 7,771 7,950 ft.	* 63,689	7,846 7,980 ft. 1 lb.	60,086	..	3,603
608	445	931	575	1,985	30,910	2,220	32,416	1,506	..
..	..	..	..	* 1,309	35,001	1,271	35,203	202	..
* 2,917	* 5,517	3,090	4,730	* 17,095 7,950 ft.	* 2,99,866	17,562 7,980 ft. 1 lb.	320,383	26,942	6,425
* 6,944	* 12,681	7,231	11,517	* 37,641 cwt. 33 2¾ mls. 7,950 ft.	* 5,94,437	38,491 cwt. 33 2¾ mls. 7,980 ft. 1 lb.	6,19,590	45,383	20,230

Annual Form No. 63.

Forest Department, Madras Presidency.

Statement of Elephants during the year 1899-1900.

District.	Names.	When purchased or otherwise obtained by Government.	Cost of monthly keep, including servants and food.	Rs.	A.	P.
1	2	3	4			
Part I.						
Elephants in possession of the Reporting Officers throughout the year.						
Vizagapatam ..	Ethel	Transferred from Southern Circle on 3rd December 1897.	Per head ..	67	0	0
Gódávari ..	1. Surat Pari	Purchased in November 1894 in Sonepur fair.	Do. ..	56	1	4
	2. Captain Gunning ..	Purchased in July 1888 and transferred from direction Northern Circle on 15th November 1897.	Do. ..	55	1	11
Kurnool	Byragi Piari	Purchased in November 1894 in Sonepur fair.	Do. ..	43	6	11
North Malabar ..	1. Phyllis	Purchased in January 1878	Do. ..	69	1	0
	2. Peri	Captured on April 1889	Do. ..	65	15	4
	3. Kalyani	Purchased in October 1889	Do. ..	68	15	0
	4. Lallameah	Captured on March 1891	Do. ..	69	1	2
	5. Krishna	Do. on 3rd March 1896	Do. ..	63	4	7
	6. Pyramus	Do. on 15th April 1897	Do. ..	64	3	6
	7. Zelica	Do. on 17th February 1898 ..	Do. ..	104	8	8
	8. Isabella	Do. on 17th February 1898 ..	Do. ..	63	8	0
	9. Chakravarthini ..	Do. on 10th March 1896	Do. ..	71	14	3
	10. Begum Johan ..	By birth on 8th January 1899	Do. ..	15	14	0
	11. Tippu Sultan ..	Captured on 22nd February 1899 ..	Do. ..	63	4	0
	12. Emily	Do. on 23rd June 1899	Do. ..	63	13	5
South Malabar ..	1. Vixen	Transferred from Wynaad in 1882 ..	Do. ..	40	4	8
	2. Peyru					
	3. Samson	Purchased from Mr. Morgan in 1885..				
	4. Eva					
	5. Theebow	Captured on 3rd January 1886 ..				
	6. Juno	Do. on 17th February 1886 ..				
	7. Jupiter	Do. on 9th January 1887				
	8. Maharajah	Transferred from Wynaad on 29th September 1888.				
	9. Gordon	Captured on 11th February 1889 ..				
	10. Eddy	Do. on 10th February 1890 ..				
	11. Loo	Do. on 21st April 1890				
	12. Hercules	Do. on 24th December 1890 ..				
	13. Tippu	Do. on 25th February 1893 ..				
	14. May	Do. on 23rd November 1894 ..				
	15. Abdul	Do. on 4th October 1891 and transferred from South Coimbatore on 18th June 1896.				
	16. Nurmahal	Transferred from North Malabar on 5th November 1898.				
	17. Devaji	Captured on 16th January 1899 ..				
	18. Janaki	Do. on 8th February 1899				
South Canara ..	1. Mohidien Khan ..	Captured on 3rd January 1896 and transferred from North Malabar on 3rd September 1897.	Do. ..	44	4	4
	2. Padmini	Captured on 8th February 1896 and transferred from North Malabar on 3rd September 1897.				
The Nilgiris ..	1. Latchmi	Transferred from the Anamalais on the 30th January 1882	Do. ..	71	11	5
	2. Chinna Latchmi ..					
	3. N. Latchmi	Purchased in September 1894				
South Coimbatore.	1. Karthiyayini	Arrived from South Malabar, August 1888	Do. ..	40	12	8
	2. Periya Rani	Do. do. May 1889 ..				
	3. Sinna Rani	Do. do. 19th August 1891.				
	4. Jumbo, II	Captured on 25th September 1892 ..				
	5. Ranger	Do. on 23rd July 1893				
	6. Dora	Transferred from South Malabar on 25th December 1896.				
	7. Bagavati					

Statement of Elephants during the year 1899-1900—*cont.*

District.	Names.	When purchased or otherwise obtained by Government.	Cost of keep, including servants and food.			How disposed of.
				Rs.	A.	P.	
1	2	3	4			5

PART II.

* *Elephants received in the year.*

North Malabar.	1. Meenatchi ..	Born on 9th April 1899 and transferred from Nilgiris on 14th July 1899.	Per head.	61	2	4	....
	2. Seetha	Transferred from Nilgiris on 14th July 1899	Do.	57	12	0	....
	3. Paddy	By birth on 17th August 1899.	Do.	13	0	3	....
	4. Ranjit Singh ..	Captured on 9th January 1900.	Do.	50	10	0	....
	5. Lala Ruk ..	Do. on 4th February 1900.	Do.	51	15	9	....
	6. Chamundi ..	Do. on 4th February 1900.	Do.	52	8	11	....
	7. Sivajee ..	Do. on 15th February 1900.	Do.	72	2	10	....
	8. Nadir Shah ..	Do. on 4th March 1900.	Do.	59	0	1	....
	9. Shah Jehan ..	Do. on 8th ,, ,,	Do.	63	13	7	....
	10. Akbar	Do. on 24th ,, ,,	Do.	44	9	7	....
	11. Aurangazib ..	Do. on 24th ,, ,,	Do.	44	7	2	....
	12. Rukmani ..	Do. on 25th ,, ,,	Do.	44	15	0	....
	13. Saraswathi ..	Do. on 31st ,, ,,	Do.	59	8	9	....
	14. Chamaraj ..	Do. on 31st ,, ,,	Do.	40	13	3	....
	15. Jehanghir ..	Do. on 1st April ,,	Do.	35	15	8	....
	16. Parvathi II ..	Do. on 2nd ,, ,,	Do.	32	12	0	....
	17. Bhakto	Do. on 6th ,, ,,	Do.	53	14	9	....
	18. Abdul Rahiman.	Do. on 7th ,, ,,	Do.	54	3	5	....
	19. Protab Singh ..	Do. on 12th ,, ,,	Do.	22	8	2	....
	20. Scindia ..	Do. on 25th ,, ,,	Do.	52	2	9	....
	21. Nurjehan ..	Do. on 9th May ,,	Do.	47	5	3	....
South Malabar.	1. Noraha.. ..	Do. on 18th February 1899.	Do.	22	7	0	....
	2. Kunhi Raman..	Do. on 15th February 1900.	Do.	35	9	2	....
The Nilgiris.	Bessie	By birth on 3rd July 1899 ..	Do.	9	1	1	....
South Coimbatore.	1. Sankara ..	Captured on 24th July 1899.	Do.	12	5	2	....
	2. Chole			14	13	10	....
	3. Tommy.. ..			12	2	7	....
	4. Akbar Baksh ..	Transferred from the Nilgiris on 25th July 1899.	Do.	43	6	2	....
	5. Zahara			37	7	1	....
	6. Jenny	Captured on 8th August 1899.	Do.	12	12	2	....
	7. Bob	Do. on 26th ,, ,,	Do.	13	1	10	....

PART III.

* *Elephants gone off the list during the year.*

North Malabar.	1. Smith	Captured on 14th May 1899 ..	Per head.	47	13	8	Sold on 16th October 1899.
	2. Sirdar	Do. on 11th June ,,	Do	43	14	3	
	3. Saraswathi ..	Do. on 31st March 1900.	Do.	59	8	9	Died on 18th May 1900.
The Nilgiris.	1. Akbar Baksh ..	By birth on 22nd February 1888.	Do.	54	11	9	Transferred to the Anamalais in the South Coimbatore district on 12th July 1899.
	2. Menatchi ..	By birth on 9th April 1899 ..					Transferred to North Malabar on 14th July 1899.
	3. Zahara	Transferred from North Malabar on 12th November 1896.					Transferred to the Anamalais on 12th July 1899.
	4. Seetha	Transferred from North Malabar in June 1896.					Transferred to North Malabar on 14th July 1899.
South Coimbatore.	1. Mona	Captured on 8th August 1898.	Do.	29	4	3	Died on 23rd February 1900.
	2. Phyllis II ..	Do. on 25th September 1892.	Do.	45	13	1	Died on 27th August 1899.
	3. Sankara	Captured on 24th July 1899.	Do.	12	5	2	Do. on 18th May 1900.
	4. Chloe	Do. on 24th ,, ,,	Do.	14	13	10	Do. on 29th March ,,
	5. Tommy	Do. on 24th ,, ,,	Do.	12	2	7	Do. on 24th ,, ,,
	6. Jenny	Do. on 8th August ,,	Do.	12	12	2	Do. on 12th January 1900.
	7. Bob	Do. on 26th August ,,	Do.	13	1	10	Died on 6th April 1900.

* The Conservator, Southern Circle, reports that 25 elephants were captured, 3 born and that 9 elephants died. The variation has, however, not been explained by him.

GOVERNMENT OF MADRAS.

REVENUE DEPARTMENT.

READ—the following Proceedings of the Board of Revenue (Land Revenue), Forest No. 459, dated 15th November 1900 :—

—

Resolution—Forest No. 459, dated 15th November 1900.

The Board submits to Government the progress report of Forest Administration in the Madras Presidency for the year ending 30th June 1900, which has been compiled by Mr. Peet, the Senior Conservator of Forests.

2. The Board has to note again that many references had to be made especially to District officers calling for returns and for explanation of discrepancies in their reports; replies from some of them were not received until the first week of November.

3. The Board desires to acknowledge the loyal co-operation of the Conservators, Messrs. Peet, Hooper and Gass, and of District Forest-officers generally in the working of the department. The visit of the Inspector-General of Forests, Mr. Ribbentrop, for the purpose of inaugurating a system whereby the operations of the department in the reserved forests of the Presidency may rapidly be brought under the control of working-plans, formed a marked feature of the year. His assistance in this important matter has been acknowledged by Government in G.O., No. 985, Revenue, dated 24th September 1900.

(True Extract.)

(Signed) A. R. CUMMING,
Acting Secretary.

To the Secretary to Government, Revenue Department,
with three copies of the report.

ORDER—No. 412, Revenue, dated 20th May 1901.

Forest No. 98.

With the above Proceedings the Board submits the report on the administration of the Forest Department during the year ending 30th June 1900. The report is a full and interesting one and reflects credit on its compiler Mr. Peet, the Senior Conservator of Forests.

Extension and Constitution of State Forests.

2. *The progress of Forest Settlement operations.*—On the 30th June 1900 a total area of 15,862 square miles had been finally constituted reserved forests under the Act: 114 square miles had been notified as becoming reserved forest on some later date: 2,246 square miles were in various stages of settlement: and 1,427 square miles had been selected for reservation but not yet brought under settlement. It is satisfactory that the work done by the five special Settlement-officers was on the whole equal to that accomplished during the previous years.

3. On the other hand, the progress made in bringing under settlement lands reserved for the purpose and in completing selections for further reservation, left much to be desired. The following abstract shows that the area notified for settlement was much the smallest during the past five years:—

Initially notified for settlement.	1895–96.		1896–97.		1897–98.		1898–99.		1899–1900.	
	Number of blocks.	Area in square miles.	Number of blocks.	Area in square miles.	Number of blocks.	Area in square miles.	Number of blocks.	Area in square miles.	Number of blocks.	Area in square miles.
	79	442	175	402	128	515	167	493	141	243

The explanation suggested in paragraph 5 of the report, that the decrease in the area initially notified was due to the limited area available for further reservation, is hardly adequate: for the area reserved for settlement stood at the end of the year at nearly 1,427 square miles. The Government, however, recognizes that small areas, especially if they adjoin cultivated tracts, require more attention than large hill blocks. The further explanations given in paragraph 11 of the report show that, while it is probable that the areas quoted against Vizagapatam, Bellary, Salem and the Nilgiris will not eventually be available for settlement as reserves, yet greater progress might have been made in Kistna and ought to have been made in Kurnool.

4. Turning to the estimate of new selections, it is observed that the estimate stood on 30th June 1899 at about 652 square miles (*vide* report for 1898–99) and on the 30th June 1900 at 281 square miles: but it appears from Form No. 44 that only some 175 square miles were newly brought under the Act during the year 1899–1900. A decrease in the estimate of some 200 square miles is thus unaccounted for.

5. In reviewing the report for the previous year the Government of India asked for an assurance that the areas not yet constituted reserves were of sufficient present or prospective value to warrant the capital outlay of transforming them into reserves. This assurance may confidently be given as regards the area (2,360 square miles) actually under settlement. As regards the area reserved for settlement and the estimate of further selections, the remarks in the foregoing paragraphs show that in several districts the examination of the proposed blocks has not been completed nor the question of their value for reservation definitely decided. This should be done wherever practicable without further delay as the termination of Forest Settlement operations generally seems now within view.

6. *Demarcation, Survey and Mapping of settled reserves.*—The following abstract shows that the outturn under the head of permanent demarcation as well as under that of reclearing was on the whole above the average of the last three years:—

	Permanent demarcation.			Reclearing of old lines, &c.		
	1897–98.	1898–99.	1899–1900.	1897–98.	1898–99.	1899–1900.
	MILES. 1,964	MILES. 1,573	MILES. 1,859	MILES. 2,804	MILES. 4,981	MILES. 5,134
Average cost per mile	RS. A. P. 11 3 10	RS. A. P. 11 11 0	RS. A. P. 11 14 9	RS. A. P. 3 12 6	RS. A. P. 2 7 0	RS. A. P. 3 9 8

A comparison between the figures in form No. 46 for the year under review and the previous year shows that the work done kept pace with the extension of reserve boundaries.

7. The topographical survey of the reserves by the Government of India parties Nos. 9 and 19 also made satisfactory progress, though it is to be regretted that the final mapping was delayed by errors and omissions occasioned by the neglect of the local officers to clear boundaries, and to point out rights within, the surveyed reserves. The importance of making the maps accurate and complete is so great that Collectors should make a point of seeing that the survey officers are adequately assisted in their work. The Government trusts that the Board's instructions in the matter will have a salutary effect.

Management of State Forests.

8. A marked feature of the year's work was the stimulus given to the preparation of working plans by the visit of Mr. Ribbentrop, late Inspector-General of Forests. Mr. Ribbentrop laid stress on the importance of spreading a network of working plans over the whole area of reserves and explained the simple nature of the plans required for the greater portion of the reserves. Under his advice a special Forest officer has been appointed for each circle to draw up under the immediate direction of the Conservator working plans for those localities which cannot conveniently be dealt with by the District Forest-officers. The report contains distinct evidence that the arrangements made will lead to a considerable advance in this important branch of forest administration. Besides much interesting information in the body of the report about the actual working of existing plans, it appears from form No. 48 that working plans were sanctioned for 219 square miles during the year and were taken in hand for 768 square miles more, and that, in all, plans were either sanctioned or in preparation for a total area of 2,536 square miles.

9. *Annual Plans of Operations.*—Except perhaps in Kurnool, all important deviations from the annual programmes were sufficiently justified. In the case of Kurnool it is not understood why a change of officers should have been allowed to cause a divergence from the settled plan of operations.

10. *Forest Offences.*—The following statement compares the leading statistics under this head for the past three years:—

Years.	Number of cases for disposal.			Number of cases disposed of.				Number of acquittals.	Percentage of cases compounded to cases disposed of.	Percentage of acquittals to cases dealt with by the magistracy.
	Cases pending.	New cases.	Total.	Withdrawn.	Compounded.	Dealt with by the magistracy.	Total.			
1897–98	1,776	14,993	16,769	2,420	7,694	4,474	14,588	650	52·7	14·6
1898–99	2,200	18,295	20,495	2,364	10,070	5,697	18,131	754	55·5	13·2
1899–1900	2,360	20,450	22,810	2,956	11,654	5,295	19,905	670	58·5	12·7

The increase in the number of cases reported during the year under review is no doubt rightly stated in the report to be mainly due to the scarcity that prevailed; it is satisfactory, however, that the number of cases sufficiently important to prosecute before the magistracy was considerably less than in the previous year: and it is creditable to the department that on the whole the percentage of acquittals was also less.

The increase in the total number of cases occurred, it will be seen, chiefly under the heads of *withdrawals* and *compounded cases*. Under *withdrawals*, the increase was chiefly due to the comparatively large number of cases returned as undetected. The Board is requested to indicate the principle on which in the statement in paragraph 23 of the report it distinguishes under the main head of "withdrawals" cases "undetected" from cases "withdrawn".

The only circumstance about the returns of *compounded cases* that calls for remark is the comparatively large number of cases of illicit goat browsing so treated, and the comparatively large amount of composition fees levied in these cases in certain districts. The point will be referred to again below in dealing with the arrangements made for grazing generally.

11. *Fire Protection.*—The area for which special measures of protection were taken remained practically the same as in the previous year. The Government is glad to notice that, in the Northern circle, the working plans under preparation make arrangements for fire protection of a rigid type. Presumably the same is the case as regards the plans under consideration in the Central and Southern circles. It will be some time, however, before plans are ready for all important areas: and the Government is disposed to think that the question of protecting against fire some of the more important reserves at present unprotected should be examined in advance. As pointed out by the Government of India in reviewing the report for the previous year, fire protection is at present attempted over about one-third only of the total area of reserves. Many areas are perhaps naturally sufficiently safe from damage by fire. An estimate of such areas might with advantage be given in the next report as suggested by the Supreme Government.

As regards the areas attempted to be protected, it would appear, even after making every allowance for the exceptionally dry season, that improvement is possible in certain localities. With regard to the hostility of the wild tribe of the Chenchus in the Nallamalais, the Government trusts conciliatory measures will be thoroughly tried before resort is had to the penal laws. In North Malabar more than three-fourths of the area under protection have been burnt in each of the three past years. It should be considered whether more effective measures of protection are not both desirable and justifiable.

12. *Regulation of Grazing.*—The grazing arrangements made were generally satisfactory. It is noted that substantial concessions in regard to free cutting and removal of grass and free grazing were made on account of the prevailing drought. The question of making provision for goat browsing appears still to present much difficulty. It has been distinctly laid down that, where the unreserved lands are not sufficient for all the reasonable requirements of the ryots in the matter of goat browsing, compartments in the reserves should be opened to goat browsing under certain rules, unless the number of permits actually issued for cattle and sheep is already excessive and shows that no spare ground is available for goat browsing. The Board of Revenue insisted in 1899 on action being taken in all districts on these principles. In many districts, however, the matter does not appear, at the end of the forest year under review, to have passed the stage of proposal and preparation of schemes. In North Arcot, for instance, the report for the year 1898–99 promised that an extended scheme would be put in force from the 1st January 1900; while from the present report it appears that the area of 12 square miles open to goats in the previous year was closed, and that a scheme for goat browsing had not yet been submitted to the Board. The Government trusts that the Board will take steps to have the matter put on a satisfactory basis in all districts with the least practicable delay.

13. *Natural and artificial reproduction and cultural operations.*—The season was generally adverse to natural reproduction and many failures and disappointments in cultural operations and experiments have to be ascribed to the drought. It is noticed that no mention is made of the special report on *bamboo* planting in South Arcot promised in the last report. A more important omission is the absence of any reference to the planting up of *kumaried* areas with teak in South Canara and North Malabar. The Government trusts that these experiments have not been abandoned.

14. *Exploitation of major and minor produce.*—The various operations undertaken for the extraction of different kinds of forest produce are fully described in the report and call for no special remark.

Gross yield and outturn of Forest Produce.

15. The total amount of forest produce extracted was greater under all heads than in the previous year. Departmental removals exceeded sales except under the head of *bamboos*. The explanation as regards *timber* appears to lie in the difficulty experienced in making satisfactory arrangements for the supply of sleepers to Railway Companies; and as regards *fuel*, the accumulation of stock was due partly to the unavoidable clearing of certain areas and partly to fellings in accordance with working-plans which will no doubt be in time adapted to actual requirements. Removals by purchasers show a large increase under all heads. Making allowance for the adjustments in the accounts which made the figures for 1898-99 in North Arcot appear less than they really were, the increase generally appears largely due to more careful supervision and better arrangements made to meet local wants. This explanation particularly applies to the increase of over half a lakh of rupees under *grazing* which was realized notwithstanding the concessions granted on account of the drought. The Government would remark, however, that some of the detailed explanations furnished in paragraph 44 of the report are not very intelligible; for example, it does not explain an increased sale of fuel in Nellore to say that several coupes were sold.

Financial Results.

16. The outstanding balance at the end of 1898-99 according to Form No. 61 appended to the report for that year was Rs. 2,68,456 + £18-15 *s.* or Rs. 2,68,712. The present report shows the opening balance of the year 1899-1900 as Rs. 1,99,858. This is due to a reduction in the balance for the Madura district of Rs. 68,854, the nature of which is not explained. As the item is large the Government will be glad to receive an explanation thereof.

Taking the opening balance of the year at Rs. 1,99,858 and adding thereto the value of sales and other revenue of the year, Rs. 23,63,460, the total amount for collection was Rs. 25,63,318. Of this sum Rs. 23,13,506 was collected, Rs. 14,155 was written off, and there remained a balance at the end of the year of Rs. 2,35,657.

The surplus of the year was 6·25 lakhs of rupees being 27 per cent. of the total collections. The department is entitled to credit for this satisfactory result attained in a season not wholly favourable.

General.

17. The Government is pleased to observe from the remarks in Chapter V of the report that the policy of working the department to meet the ryots' wants is kept steadily in view. The Government notes with special satisfaction the measures taken to extend and promote the growth of trees and shrubs, the leaves and twigs of which are used by the ryots for field manure. It is also satisfactory to note that the co-operation between the Revenue and Forest-officers so essential to the successful administration of the department in this Presidency generally continues.

18. Several cases of misconduct among the subordinate staff are reported. It is noted that the question whether stricter disciplinary measures are required is under the Board's consideration. At the same time the Government trusts that continued careful supervision together with the improved prospects now open to the subordinate staff will in time effect a marked improvement.

19. The Government is pleased to notice the commendations deservedly earned by Messrs. Cox, Nallasawmi Naidu and, in particular, by Mr. Brasier. His Excellency the Governor in Council would be glad to see in the report a somewhat fuller notice of the work of individual Forest-officers. The Conservators have ample opportunities of comparing the work of the various Forest-officers in their circle and of judging of their merits. Mr. Hooper does neither himself nor the District Forest-officers of his circle justice in confining his notice to the officer specially employed on working-plans; nor is it understood what he means by referring to that officer as the "only officer" who has served under him. It is the duty of the Conservator of the circle to gauge the character and work of all the Forest-officers serving in his jurisdiction.

20. *General.*—Satisfactory progress was made in settlement work: and also in the preparation of working plans: steady attention was paid to meeting the requirements of the people and reconciling their wants with the restrictions necessarily imposed by effective conservancy; while a considerable revenue was realized in excess of expenditure. All these circumstances testify to the general good management and work of the department. His Excellency the Governor in Council has much pleasure in congratulating all concerned on the successful results of the year.

(True Extract.)

(Signed) G. S. FORBES,
Secretary to Government.

00134084

Digitized with financial assistance from

Government of Maharashtra

on 01 February, 2020

REPORT

ON THE

ADMINISTRATION

OF THE

MADRAS PRESIDENCY,

DURING THE YEAR

1894-95.

PART I.—SUMMARY OF THE ADMINISTRATION.
PART II.—DEPARTMENTAL CHAPTERS.
PART III.—APPENDIX.—STATISTICAL RETURNS.
PART IV.—SPECIAL APPENDIX.

MADRAS:
PRINTED BY THE SUPERINTENDENT, GOVERNMENT PRESS.

1895.